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TITLE: Characterization of Human Torso Vascular Morphometry in Normotensive and Hypotensive Trauma Patients

PRINCIPAL INVESTIGATOR: Stewart C. Wang, M.D., Ph.D.

RECIPIENT: Regents of the University of Michigan

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#### 14. ABSTRACT

Non-compressible torso hemorrhage remains the leading cause of preventable death on the battlefield and a leading cause of death in civilian centers. The purpose of this project is to provide basic morphometric understanding of aortic and vena caval anatomy as it relates to the rest of the body with the goal of enabling the use of various occlusion catheters that can control bleeding in non-compressible torso injuries in the field. One year into the project, we have identified and processed the base morphomics and much of the aortic and vena caval measurements for the 2000 civilian CT scans. Additionally, we have developed a machine-learning algorithm for aortic identification that will speed processing and reduce inter- and intra-user variability. Regarding the military scans, we have secured HRPO IRB approval and are actively working on a process for receiving military CT scans. Finally, we have begun planning our data analysis and have executed pilot assessments to validate the approach.

#### 15. SUBJECT TERMS

Trauma, Endovascular, Thoracic, Abdominal, Aorta, Morphometry

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#### 1. INTRODUCTION:

Our research group has developed advanced technical capabilities to quantitatively measure anatomic characteristics in traumatically injured patients. In a previous DOD study, we noted clear differences between men (n=400) and women (n=170). We also noted significant racial differences in the correlation between body habitus and aortic dimensions as well as differences with age and body habitus. We hypothesize that aortic and venous dimensions differ with the hemodynamic status of the injured person as well as their gender, race, body habitus and age. Better characterization of these differences is necessary to guide optimal field inflation of occlusive balloon catheters or other hemorrhage control devices for the treatment of battlefield casualties; and better characterization of the corresponding dimensions will support the development of occlusion devices that optimally limit hemorrhage while minimizing complications. Specifically, we aim to develop accurate measurements for aortic and vena caval dimensions based on hemodynamic status, body habitus, gender and age in the civilian population; and subsequently we will translate these findings to the military population and create accurate nomograms for catheter design, catheter insertion and balloon inflation based on hemodynamic status, body habitus, gender and age.

## 2. KEYWORDS:

Provide a brief list of keywords (limit to 20 words).

- Trauma
- Endovascular
- Thoracic
- Abdominal
- Aorta
- Morphometry
- Vena Cava
- Machine Learning
- Hemorrhage
- Catheter
- Hypotension
- Balloon Occlusion

## 3. OVERALL PROJECT SUMMARY:

## 1.1.1: Identify 2000 Civilian CTs (06/30/14-10/30/14)

• Current Objectives:

The goal for this task is to identify CT scans from 2000 civilians between the ages of 18 and 50 from which we will extract aorta and vena cava measurements of length and dimension, as well as muscle, fat, bone, and organ morphomic measures and hemodynamic status (BP and HR).

Results, Progress and Accomplishments (with Discussion):
 This task is complete. We have identified 2000+ civilian CTs from the University of Michigan trauma registry that meet these criteria.

# • Key Methodology:

Using the PGAdmin query tool, we married the data from the UM trauma registry with the UM radiology database to identify patients who were transported to the ED for a traumatic injury or admitted the UMHS and who received a CT scan for clinical purposes.

#### • Data:

See APPENDIX A: Civilian Patient List (PDF)

# 1.3 Develop Aorta Algorithm (06/30/14-10/30/14)

• Current Objectives:

Segment the full aorta from the arch to the bifurcation points, and then post-process with MATLAB® to identify the multiple critical vessel branch-points for diameter and length measurements.

• Results, Progress and Accomplishments (with Discussion): The algorithms for the automatic segmentation of the aorta have been developed and meet our target accuracy measures (currently we are achieving an average 90% accuracy rate with our fully-automated machine learning approach). This method has greatly improved the throughput and provided a level of consistency that overcomes any inter- and intra-user variability.

# • Key Methodology:

Using a novel approach for identifying and capturing morphomic data from CT scans, we have developed a machine learning technique for extracting the aortic structures in a more automated fashion. This entails creating algorithms that search for circular structures in a region of interest and then reference the slices above and below to validate the selection. Once the main aortic structure is identified, we lay in a centerline and use a post-processing, user-guided algorithm developed in MATLAB® to mark femoral head cut point (left and right), iliac (left and right), bifurcation point, renal arteries (left and right), superior mesenteric, celiac (inferior and superior), and left subclavian artery. Following this identification step, measurements of diameter and lengths (total and between the branch points) are stored in the database.

#### • Data:

See Appendix B: Vascular Processing Videos (Powerpoint)

• See also Appendix G: Machine Learning

# 1.1.2: Identify 50 EKG-gated CTs (11/03/14-12/12/14)

• Current Objectives:

To determine the normal change in aortic/vena caval geometry and dimensions at different locations during the cardiac cycle, we are also analyzing a cohort (n=50) of subjects who have undergone EKG-gated CT scans to determine the change in aortic geometry and dimensions at different aortic locations during the cardiac cycle. Hemodynamic data is available for these patients from the time of CT scanning. This information will be essential for optimal design of catheter balloons that have the appropriate mechanical properties to occlude flow without causing aortic rupture or dissection at different stages of the cardiac cycle.

- Results, Progress and Accomplishments (with Discussion):
   We have successfully identified this subset of patients. This task is complete.
- Key Methodology:

To identify these patients we used the PGAdmin query tool find patients in the trauma population who underwent an ECG-gated CT scan. Once selected, downloaded, and de-identified, these scans are then separated into the multiple cardiac phases to enable our algorithms to process each stage individually. Once this is complete, we run each phase through our automated and post-processing steps.

• Data:

See Appendix A: Civilian Patient List (PDF)

# 1.1.3: Identify 75 Internal Injury & Hypotensive CTs (11/03/14-01/02/15)

Current Objectives:

To determine the effect of internal hemorrhage and hypovolemia on aortic/vena caval dimensions and geometry, we are analyzing an additional cohort of civilian trauma patients with significant internal hemorrhage and with/without hemodynamic instability (n=75). Comparing patients with arterial versus venous bleeding (as determined by active contrast extravasation) as well as differing locations of hemorrhage (chest, abdomen, pelvis). In the past, it was extremely rare to scan a hypotensive trauma patient as they were rushed to the OR. However, with the recent widespread adoption of ultrasound to rule out pericardial, pleural, and abdominal fluid in combination with continued use of chest and pelvis radiographs to rule out significant thoracic and pelvic hemorrhage, more and more hypotensive blunt trauma patients (primarily from high energy motor vehicle crashes) are undergoing CT scanning with continued resuscitation to define their internal injuries rather than proceeding to the OR for blind surgical exploration. It is this population that provided the 75 scans needed for this task.

• Results, Progress and Accomplishments (with Discussion):
We have successfully identified this subset of patients. This task is complete.

# • Key Methodology:

To identify these patients we used the PGAdmin query tool find patients in the trauma population with internal hemorrhage and hypovolemia. Once selected, downloaded, and de-identified, we will determine whether the patient had arterial versus venous bleeding (as determined by active contrast extravasation) as well as the differing locations of hemorrhage (chest, abdomen, pelvis).

#### • Data:

See Appendix A: Civilian Patient List (PDF)

# 1.4: Develop Vena Cava Algorithm (09/01/14-02/13/15)

• Current Objectives:

Better characterization of the differences in vena caval dimensions and lengths is necessary to guide optimal field inflation of occlusive balloon catheters or other hemorrhage control devices for the treatment of battlefield casualties. Better characterization of these dimensions will support the development of occlusion devices that optimally limit hemorrhage while minimizing complications.

• Results, Progress and Accomplishments (with Discussion): We have developed a user-guided algorithm to process the vena cava.

# • Key Methodology:

We have begun manual segmentation of Vena Cava of civilian patients. This process involves placing points on the interior of the vena cava and then using a "growing" algorithm to find the edges. We attempted development of a more automated process but the variation of the vena cava dimension and shape resulted an algorithm that was not accurate enough to make the process useful.

#### • Data:

See Appendix B: Vascular Processing Videos (Powerpoint)

## **1.2: Capture Civilian Demographics (11/03/14-03/06/15)**

• Current Objectives:

To identify the variability in aortic and vena caval dimensions without the need for 3-D imaging in the field. Our objective is to develop nomograms that take into account age, sex, race, weight, and height, as well as external measurements that we can extrapolate for our base morphomics measurements.

Results, Progress and Accomplishments (with Discussion):
 We have identified all demographics of our civilian population that are possible.
 This task is complete.

## • Key Methodology:

We leveraged the UM trauma registry and the electronic medical records system at UMHS to extract the demographics data on our selected civilian patient

population. Using the PGAdmin query tool, we extracted age, sex, race (when available), blood pressure, and heart rate for each patient from our identified group (transported to the ED for a traumatic injury or admitted the UMHS and who received a CT scan for clinical purposes.

#### Data:

See Appendix A: Civilian Patient List (PDF)

# 1.5: Process Base Morphomics for Civilian Population (09/01/14-03/27/15)

Current Objectives:

We will use our base morphomic measurements in body circumference, fat, muscle, bone, organs, etc. to record measurement of body habitus for the civilian trauma population. These data will then be connected with demographics and vasculature measures to feed our development of nomograms for vasculature.

- Results, Progress and Accomplishments (with Discussion):
   All base morphomics have been processed for the civilian scans we have identified. This task is complete.
- Key Methodology:

Morphomics is based on highly automated, high-throughput image processing to quantify anatomically-indexed measures from a single patient's scan, offering remarkable opportunities for personalized treatment. Each patient's individual morphometric qualities are then assessed against population-based standards to identify patient-specific risk factors. Morphomic assessment of trunk musculature (density and mass), spine, psoas (area and quality), fascia, skin, fat, body circumference and eccentricity, dorsal muscle group, bone mineral density, and solid organ morphomic measures have demonstrated that these patient-specific variables dominate risk prediction models using proven techniques for the UM Morphomic Analysis Group.

#### • Data:

See Appendix C: Morphomics Overview (PDF)

# 1.6: Process Aorta for Civilian Population (09/22/14-10/02/15)

Current Objectives:

To determine a baseline for our nomogram development, we are leveraging our custom algorithm to extract length and diameter measurements as well as branch point locations for 2000 civilian CTs.

Results, Progress and Accomplishments (with Discussion):
 We have processed 959 aortas from 2000 normotensive civilian CTs thus far.
 Now that we have developed and tested a reliable machine-learning based automatic processing method, the completion of this task will be completed on time.

# Key Methodology:

Using a novel approach for identifying and capturing morphomic data from CT scans, we have developed a machine learning technique for extracting the aortic structures in a more automated fashion. This entails creating algorithms that search for circular structures in a region of interest and then reference the slices above and below to validate the selection. Once the main aortic structure is identified, we lay in a centerline and measure the radius. Then, using a post-processing, user-guided algorithm developed in MATLAB®, we mark the femoral head cut point (left and right), iliac (left and right), bifurcation point, renal arteries (left and right), superior mesenteric, celiac (inferior and superior), and left subclavian artery. Following this identification step, measurements of diameter and lengths (total and between the branch points) are stored in the database.

#### • Data:

AORTA	Centerline	Radii	Landmarks	Full Volumes
Normotensive	959	959	280	280
Hypotensive	63	63	14	14

# 1.7: Process Vena Cava for Civilian Population (01/05/15-01/15/16)

# • Current Objectives:

To determine a baseline for our nomogram development, we are leveraging our custom algorithm to extract length as well as minor and major diameter measurements, branch point locations, and volume for a 5 cm section of the vena cava for 2000 civilian CTs.

Results, Progress and Accomplishments (with Discussion):
 We have placed landmarks on 959 normotensive and 63 Hypotensive scans. We are continuing with the process and we run he measurements of major and minor axis and of a 5cm volume measurement.

## • Key Methodology:

Points within the vena cava are placed manually, and then a line is derived. Landmarks (right and left iliac, inferior and superior bifurcation, left and right renal, supra hepatic, and IVC heart junction) are identified on the scans and recorded in the database. A custom algorithm is then run to determine the major and minor axis of the vena cava, providing insight into its eccentricity and level of collapse. Finally a 5cm segment is identified, and volume is derived to provide further data on the condition of the vena cava.

#### • Data:

Vena Cava	Landmarks
Normotensive	959
Hypotensive	63

# 1.8: Civilian Analysis (12/07/15-04/08/16)

• Current Objectives:

Hemodynamic data, in conjunction with age, gender, height, weight, and BMI data as well as analytic morphomic data (distances between bony landmarks, body composition, and cross sectional area and circumference, etc.) will be analyzed with the aortic/vena caval data to determine nomograms for optimal balloon insertion and inflation targets.

- Results, Progress and Accomplishments (with Discussion):
  Although this task is not scheduled to start until December 2015, we have run some preliminary analysis on the data we have collected thus far.
- Key Methodology: We will be using the tool, Tableau, to analyze the data we have acquired.
- Data:

See preliminary data in Appendix D: Initial Data Analysis (PDF).

Please note that some of the trends are currently of limited value due to small sample size. These trends will likely change as our processed scan volume increases.

## 2.1: Arrange Access to Military CTs in San Antonio (01/02/15-06/19/15)

• Current Objectives:

Arrange for access to 500 warfighter CTs for the third aim of this grant.

- Results, Progress and Accomplishments (with Discussion):
   We have received IRB approval from HRPO and are working with AISR to
   determine the most efficient way of getting scans. Unfortunately, this process has
   stalled a few times, so we are behind schedule. Most recently, we have been in
   discussions with Jeremy C Pamplin (LTC USARMY MEDCOM AISR US) and
   Leopoldo C Cancio, MD (CIV USARMY MEDCOM AISR US) to resolve this
   issue.
- Key Methodology: Following DOD protocol.

# 2.2: Identify 500 CTs from Military Population (SOW #2.2, 06/19/15-10/23/15)

• This task is on hold until we can resolve SOW 2.1 (above).

# **Next Steps**

# Civilian Population

- Complete processing and demographic data gathering on last 1000 scans
- Analyze vascular measures, morphomics, and demographics (univariate and multivariate) to identify predictive measures
- Develop nomograms for testing against military population

# **Military Population**

- Gain access to Military CTs (VPN or CDs, CRADA, IRB)
- Support identification of 500 warfighter CTs
- Receive scans and demographics on military scans
- Process base morphomics on military scans
- Process aorta on military scans
- · Process vena cava on military scans

Prepare final analysis report

## 4. KEY RESEARCH ACCOMPLISHMENTS:

"Nothing to report."

## 5. CONCLUSION:

"Nothing to report."

# 6. PUBLICATIONS, ABSTRACTS, AND PRESENTATIONS:

"Nothing to report."

# 7. INVENTIONS, PATENTS AND LICENSES:

"Nothing to report."

## 8. REPORTABLE OUTCOMES:

"Nothing to report."

## 9. OTHER ACHIEVEMENTS:

"Nothing to report."

## 10. REFERENCES:

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## 11. APPENDICES:

- Appendix A: Civilian Patient List (PDF)
- Appendix B: Vascular Processing Videos (Powerpoint)
- Appendix C: Morphomics Overview (PDF)
- Appendix D: Initial Data Analysis (PDF)
- Appendix E: Year 01, Quarter 4 Quad Chart
- Appendix F: Year 01 Quarter 4 Timeline
- Appendix G: Machine Learning

# **APPENDIX A**

Civilian Patient List

Study ID T	ime to Scan Study Description	Study Date/Time	Age Race	Sex	ED BP E	D Pulse Tag
554	4:44:10 CT THORAX W IV CONTRAS	8/9/2008 12:59	21 White	М	129	78 DOD ECG
3125	8:09:27 CT ANGIO CHEST WO AND W CONTRAST	6/5/2009 7:31	47 White	М	16	97 DOD ECG
3195	1:06:38 CT THORAX W IV CONTRAST	3/3/2010 19:30	45 Black	М	103	95 DOD ECG
3286	0:43:13 CHEST ABDOMEN PELVIS	2/1/2009 18:03	21 White	F	147	105 DOD ECG
3322	0:30:11 CHEST ABDOMEN PELVIS	12/7/2008 8:55	29 White	М	147	86 DOD ECG
3512	0:29:19 CT THORAX W IV CONTRAS	10/11/2008 19:40	48 White	М	140	76 DOD ECG
3512	0:55:26 CHEST ABDOMEN PELVIS	10/9/2008 10:36	47 White	М	149	62 DOD ECG
6997	0:54:50 CT THORAX W IV CONTRAS	8/9/2008 12:01	38 White	М	145	68 DOD ECG
7822	8:13:06 CHEST ABDOMEN PELVIS	6/16/2008 5:23	28 White	F	132	74 DOD ECG
7828	3:48:58 CT THORAX W IV CONTRAS	6/10/2008 7:28	38 White	М	156	87 DOD ECG
7838	3:04:33 CT THORAX W IV CONTRAS	6/9/2008 5:03	21 White	M	105	67 DOD ECG
7885	0:45:00 CHEST ABDOMEN PELVIS	4/28/2008 4:44	23 White	F	110	87 DOD ECG
7909	0:37:31 CHEST ABDOMEN PELVIS	4/3/2008 14:37	30 White	M	118	74 DOD ECG
7903	0:35:53 CHEST ABDOMEN PELVIS	2/26/2008 10:51	43 White	M	156	87 DOD ECG
7933 7974						109 DOD ECG
	0:44:08 CHEST ABDOMEN PELVIS 1:57:31 CHEST ABDOMEN PELVIS	1/6/2008 13:39 12/20/2007 2:19	35 White 44 White	F	120	
7990				M	166	100 DOD ECG
9200	0:29:35 CHEST ABDOMEN PELVIS	7/12/2007 13:33	19 White	M	159	74 DOD ECG
9246	0:43:30 CHEST ABDOMEN PELVIS	6/19/2007 1:53	26 White	M	121	115 DOD ECG
9264	0:25:50 CHEST ABDOMEN PELVIS	6/3/2007 17:14	37 White	F	114	122 DOD ECG
10551	0:39:32 CT THORAX W IV CONTRAST	8/23/2009 8:10	44 White	М	118	81 DOD ECG
10815	0:34:56 CT THORAX W IV CONTRAST	9/9/2009 10:36	35 White	М	123	88 DOD ECG
10924	1:10:15 CT THORAX W IV CONTRAST	7/16/2009 15:25	33 White	М	152	111 DOD ECG
11631	0:35:51 CT ABDOMEN W IV CONTRAST	8/9/2009 3:23	21 White	М	71	103 DOD ECG
13399	2:39:40 CT THORAX W IV CONTRAST	8/19/2009 7:04	21 White	М	151	113 DOD ECG
16034	0:48:54 CT ABDOMEN W IV CONTRAST	6/2/2010 16:39	19 White	М	160	55 DOD ECG
16069	1:12:24 CT ABDOMEN W IV CONTRAST	2/20/2010 13:02	20 Hispanic	M	134	78 DOD ECG
21970	2:01:54 CT THORAX W IV CONTRAST	8/20/2010 1:15	41 White	М	163	109 DOD ECG
23575	0:30:47 CT THORAX W IV CONTRAST	6/22/2009 20:00	42 White	F	142	68 DOD ECG
23705	0:59:37 CT THORAX W IV CONTRAST	9/1/2011 14:29	22 White	F	130	129 DOD ECG
23726	0:35:40 CT THORAX W IV CONTRAST	8/1/2011 17:07	20 White	M	139	122 DOD ECG
23881	0:49:38 CT THORAX W IV CONTRAST	7/2/2011 6:21	49 White	М	123	95 DOD ECG
23883	0:33:13 CT THORAX W IV CONTRAST	7/2/2011 7:29	47 White	M	141	96 DOD ECG
23924	0:33:05 CT ABDOMEN PELVIS W IV CONTRAST	6/7/2011 14:37	18 White	F	141	66 DOD ECG
23925	0:30:48 CT ABDOMEN PELVIS W IV CONTRAST	6/5/2011 23:27	47 White	M	180	81 DOD ECG
23930	0:28:35 CT ABDOMEN PELVIS W IV CONTRAST	5/26/2011 13:56	22 White	М	160	90 DOD ECG
24439	1:08:52 CT THORAX W IV CONTRAST	6/19/2005 6:12	20 White	M	140	98 DOD ECG
49464	2:24:51 CT THORAX W IV CONTRAST	8/27/2010 0:29	35 White	М	140	82 DOD ECG
52937	1:11:42 CT THORAX W IV CONTRAST	10/23/2011 15:29	48 White	M	177	91 DOD ECG
52945	1:15:03 CT THORAX W IV CONTRAST	12/2/2011 20:34	50 White	F	195	76 DOD ECG
52949	0:28:57 CT THORAX W IV CONTRAST	3/5/2012 15:51	49 White	M	165	100 DOD ECG
52974	1:48:17 CT THORAX W IV CONTRAST	1/22/2012 5:18	31 White	F	90	69 DOD ECG
53834	3:38:20 CT THORAX W IV CONTRAST	10/11/2011 6:16	34 Black	M	152	75 DOD ECG
53966	0:45:29 CT ABDOMEN PELVIS W IV CONTRAST	2/4/2012 5:45	25 Black	F	129	94 DOD ECG
54436	0:37:30 CT THORAX W IV CONTRAST	12/1/2012 14:58	42 White	М	118	81 DOD ECG
68795	0:49:34 CT THORAX W IV CONTRAST	9/9/2009 2:54	35 White	М	181	66 DOD ECG
68796	0:35:48 CT THORAX W IV CONTRAST	3/20/2008 15:26	31 White	М	133	84 DOD ECG
68797	0:38:21 CT THORAX W IV CONTRAST	9/22/2008 9:26	36 White	М	149	100 DOD ECG
68798	1:08:34 CT THORAX W IV CONTRAST	11/8/2008 8:23	33 White	М	98	80 DOD ECG
68799	2:05:16 CT THORAX W IV CONTRAST	12/31/2007 14:32	36 White	М	186	68 DOD ECG
68800	14:27:18 CT THORAX W IV CONTRAST	6/6/2010 22:24	45 White	F	145	80 DOD ECG
68801	0:46:32 CT THORAX W IV CONTRAST	11/5/2009 10:26	25 White	F	140	115 DOD ECG
68802	0:28:11 CT THORAX W IV CONTRAST	12/14/2010 11:21	41 White	М	159	95 DOD ECG

Study ID	Time to Scan Study Description	Study Date/Time	Age Race	Sex	ED BP I	ED Pulse Tag
68803	0:38:50 CT THORAX W IV CONTRAST	11/1/2010 2:06	19 White	М	143	96 DOD ECG
68804	0:30:44 CT THORAX W IV CONTRAST	10/2/2010 14:11	19 White	М	144	84 DOD ECG
68805	1:33:05 CT THORAX W IV CONTRAST	11/25/2011 6:04	31 Black	F	125	115 DOD ECG
68806	1:18:57 CT THORAX W IV CONTRAST	4/15/2012 18:16	18 White	М	159	86 DOD ECG
68807	0:45:29 CT THORAX W IV CONTRAST	2/4/2012 5:45	25 Black	F	129	94 DOD ECG
68808	5:07:02 CT THORAX W IV CONTRAST	12/5/2011 3:06	37 White	М	135	98 DOD ECG
68809	0:58:14 CT THORAX W IV CONTRAST	1/28/2012 18:43	19 White	М	146	142 DOD ECG
68810	0:41:07 CT THORAX W IV CONTRAST	1/13/2012 14:16	20 White	F	116	79 DOD ECG
68811	2:16:47 CT THORAX W IV CONTRAST	2/18/2012 15:36	26 White	M	199	103 DOD ECG
68812	12:30:17 CT ANGIO CHEST WO AND W CONTRAST	8/1/2012 8:03	23 White	F	134	76 DOD ECG
68813	0:53:21 CT THORAX W IV CONTRAST	4/29/2012 4:11	24 White	F	135	120 DOD ECG
68815	13:47:32 CT THORAX W IV CONTRAST	10/13/2012 9:35	37 White	F	129	102 DOD ECG
		• •	33 White	F		
68816	0:56:24 CT THORAX W IV CONTRAST	11/16/2012 14:29	39 White		132	84 DOD ECG
68817	0:56:24 CT THORAX W IV CONTRAST	1/17/2013 9:48		M	203	82 DOD ECG
68818	1:05:33 CT THORAX W IV CONTRAST	2/20/2013 14:26	20 White	F	149	122 DOD ECG
68819	0:38:18 CT THORAX W IV CONTRAST	3/13/2013 11:52	22 White	F	110	78 DOD ECG
68820	0:58:29 CT ANGIO CHEST WO AND W CONTRAST	11/11/2007 2:37	19 White	M	132	105 DOD ECG
160	1:23:09 CHEST ABDOMEN PELVIS	3/24/2004 2:27	21 White	M	87	130 DOD hypotensive
559	3:42:27 CT THORAX W IV CONTRAS	2/20/2006 8:57	25 White	M	82	145 DOD hypotensive
646	1:36:10 CHEST ABDOMEN PELVIS	7/8/2004 23:36	39 White	М	78	102 DOD hypotensive
673	1:05:40 CHEST ABDOMEN PELVIS	8/24/2002 8:30	35 White	М	82	105 DOD hypotensive
1788	2:19:48 CHEST ABDOMEN PELVIS	11/24/2004 6:56	19 White	М	77	156 DOD hypotensive
2163	0:50:42 CT THORAX W IV CONTRAS	6/18/2009 4:51	31 White	F	79	117 DOD hypotensive
3089	1:22:14 CHEST ABDOMEN PELVIS	6/27/2009 4:17	35 White	М	66	118 DOD hypotensive
3090	0:58:46 CHEST ABDOMEN PELVIS	6/27/2009 21:45	18 White	М	67	106 DOD hypotensive
3225	1:03:25 CHEST ABDOMEN PELVIS	4/16/2009 17:38	49 White	М	75	121 DOD hypotensive
3463	1:05:16 CHEST ABDOMEN PELVIS	10/14/2008 4:09	34 Black	М	75	102 DOD hypotensive
4348	0:56:45 CHEST ABDOMEN PELVIS	9/26/2008 17:50	42 White	М	87	120 DOD hypotensive
4374	1:14:50 CT THORAX W IV CONTRAST	8/30/2008 10:19	19 White	М	95	122 DOD hypotensive
7812	6:15:31 CHEST ABDOMEN PELVIS	6/23/2008 2:13	22 White	M	73	122 DOD hypotensive
7849	0:57:56 CHEST ABDOMEN PELVIS	5/24/2008 16:04	45 White	F	69	113 DOD hypotensive
7871	5:52:30 CHEST ABDOMEN PELVIS	5/5/2008 10:56	23 White	F	52	105 DOD hypotensive
7876	0:54:15 CHEST ABDOMEN PELVIS	5/4/2008 18:50	48 White	М	67	157 DOD hypotensive
7915	0:46:50 CT ABDOMEN W IV CONTRA	3/21/2008 2:34	18 White	М	78	122 DOD hypotensive
7963	1:48:35 CHEST ABDOMEN PELVIS	3/13/2008 18:30	45 White	М	68	140 DOD hypotensive
7981	0:47:09 CHEST ABDOMEN PELVIS	1/1/2008 14:07	19 White	М	86	132 DOD hypotensive
8920	1:02:53 CT THORAX W IV CONTRAS	10/7/2007 1:44	28 White	M	67	119 DOD hypotensive
9314	1:07:19 CT ABDOMEN W IV CONTRA	4/23/2007 4:06	20 White	М	75	104 DOD hypotensive
9338	1:33:11 CHEST ABDOMEN PELVIS	3/26/2007 12:20	38 White	M	75	140 DOD hypotensive
9496	1:41:16 CHEST ABDOMEN PELVIS	12/5/2006 14:41	24 White	M	90	118 DOD hypotensive
10585	0:52:44 ABDOMEN	8/16/2001 14:30	50 White	F	88	106 DOD hypotensive
10938	6:54:22 CT ABDOMEN W IV CONTRAST	2/5/2010 0:44	39 White	F	66	114 DOD hypotensive
11392	0:47:01 CT THORAX W IV CONTRAST	4/23/2010 4:40	24 White	F	96	130 DOD hypotensive
11616	1:24:16 CT ABDOMEN W IV CONTRAST	11/13/2009 20:44	30 Other	F	80	102 DOD hypotensive
11631	0:35:51 CT ABDOMEN W IV CONTRAST	8/9/2009 3:23	21 White	М	71	103 DOD hypotensive
12417	2:40:23 CHEST ABDOMEN PELVIS	2/11/2006 8:25	32 White	F	96	113 DOD hypotensive
13043	1:12:45 CHEST ABDOMEN PELVIS	1/24/2006 12:44	24 White	М	92	133 DOD hypotensive
14340	0:56:24 CT THORAX W IV CONTRAST	12/6/2010 20:45	21 White	М	78	157 DOD hypotensive
16057	0:48:57 CT ABDOMEN W IV CONTRAST	5/24/2010 16:38	27 White	М	83	109 DOD hypotensive
16867	1:28:28 CT THORAX W IV CONTRAST	7/3/2007 8:47	32 White	F	93	113 DOD hypotensive
19466	10:15:20 CT THORAX W IV CONTRAST	11/17/2007 2:32	19 White	F	72	102 DOD hypotensive
21890	0:41:59 CT ABDOMEN W IV CONTRAST	8/24/2009 23:28	24 White	М	88	118 DOD hypotensive

Study ID	Time to Scan	Study Description	Study Date/Time	Age	Race	Sex ED	BP ED Pu	ulse Tag
21946	19:59:29	CT THORAX W IV CONTRAST	9/25/2011 22:07	20	White	M	78	115 DOD hypotensive
21953	0:38:35	CT ABDOMEN PELVIS W IV CONTRAST	9/25/2011 2:46	20	White	M	78	115 DOD hypotensive
22752	1:51:38	CT THORAX W IV CONTRAST	6/7/2004 1:39	19	White	F	98	110 DOD hypotensive
23561	3:26:21	CT THORAX W IV CONTRAST	12/12/2009 15:33	36	White	F	85	111 DOD hypotensive
24379	1:38:16	CT THORAX W IV CONTRAST	10/23/2004 18:47	19	White	F	55	138 DOD hypotensive
24436	1:26:51	CT THORAX W IV CONTRAST	6/17/2005 13:04	41	White	F	44	116 DOD hypotensive
24482	1:24:22	CT ABDOMEN W IV CONTRAST	7/19/2005 12:22	41	White	М	93	135 DOD hypotensive
24656	5:30:44	CT THORAX W IV CONTRAST	2/24/2007 3:52	47	White	M	79	122 DOD hypotensive
35635	1:07:15	CT ABDOMEN W IV CONTRAST	1/19/2010 22:59	48	White	М	75	128 DOD hypotensive
49484	1:06:45	CT THORAX W IV CONTRAST	8/6/2005 23:10	45	White	M	68	118 DOD hypotensive
53899	1:05:09	CT THORAX W IV CONTRAST	11/10/2011 17:22	42	White	F	80	116 DOD hypotensive
54158	-03:28:36	CT Outside Film ABDOMEN AND PELVIS	8/2/2012 1:24	40	Black	М	69	126 DOD hypotensive
54319	2:05:20	CT THORAX W IV CONTRAST	9/9/2012 18:03	45	White	F	78	111 DOD hypotensive
54340	0:51:57	CT THORAX W IV CONTRAST	8/31/2012 22:08	44	White	F		130 DOD hypotensive
54342	1:31:01	CT ABDOMEN PELVIS W IV CONTRAST	8/12/2012 19:36	50	White	F		128 DOD hypotensive
54372	0:46:37	CT POST PROCESSED L SPINE	9/21/2012 7:32	24	White	F		120 DOD hypotensive
55782	1:21:28	CT THORAX W IV CONTRAST	8/6/2005 15:01	42	White	F		105 DOD hypotensive
59391	2:04:35	CT ABDOMEN PELVIS W IV CONTRAST	2/21/2013 18:45	44	White	F	98	126 DOD hypotensive
60918	1:08:11	CT ABDOMEN W IV CONTRAST	6/9/2003 23:49	18	White	М		155 DOD hypotensive
66225	1:37:27	CT THORAX W IV CONTRAST	7/4/2007 16:21	32	White	М	84	131 DOD hypotensive
66278	1:18:02	CT THORAX W IV CONTRAST	4/29/2002 15:53	47		M		145 DOD hypotensive
66279	23:39:34	CT THORAX W IV CONTRAST	8/7/2004 16:30	49	Other	F		106 DOD hypotensive
66280	0:58:36	CT ABDOMEN W IV CONTRAST	7/25/2003 10:04	30		M		133 DOD hypotensive
66281		CT THORAX W IV CONTRAST	6/10/2005 8:34		White	М		188 DOD hypotensive
66282		CT THORAX W IV CONTRAST	8/11/2007 11:02		White	M		130 DOD hypotensive
66283		CT ABDOMEN W IV CONTRAST	12/20/2003 18:57		White	M		120 DOD hypotensive
66284		CT THORAX W IV CONTRAST	11/5/2006 16:05		White	M		142 DOD hypotensive
66285		CT THORAX W IV CONTRAST	10/15/2004 6:10		White	F		121 DOD hypotensive
	-05:33:37	CT OUTSIDE FILM CONSULT CHEST	11/14/2009 16:31		White	F		117 DOD hypotensive
66288		CT THORAX W IV CONTRAST	9/10/2005 13:26		White	F		114 DOD hypotensive
66297		CT THORAX W IV CONTRAST	5/5/2008 18:15		White	M		119 DOD hypotensive
66298		CT THORAX W IV CONTRAST	4/29/2009 0:00		Black	M		135 DOD hypotensive
	-00:53:02	CT OUTSIDE FILM CONSULT ABDOMEN	8/28/2010 10:18		White	F		130 DOD hypotensive
	-02:22:04	CT OUTSIDE FILM CONSULT CHEST	9/23/2012 18:14		White	M		130 DOD hypotensive
66302		CT ABDOMEN W IV CONTRAST	6/11/2000 7:12		White	M		106 DOD hypotensive
67032		CT THORAX W IV CONTRAST	1/30/2002 11:37			M		105 DOD hypotensive
67033		CT THORAX W IV CONTRAST	4/8/2003 19:28		White	M		131 DOD hypotensive
67035		CT ABDOMEN W IV CONTRAST	6/28/2009 22:44		White	F		112 DOD hypotensive
67036		CT THORAX W IV CONTRAST	1/23/2009 21:57		White	M		112 DOD hypotensive
67037		CT THORAX W IV CONTRAST	8/3/2008 20:15		White	M		105 DOD hypotensive
67039		CT ABDOMEN W IV CONTRAST	12/5/2006 14:41		White	M		118 DOD hypotensive
67042		CT THORAX W IV CONTRAST	2/11/2006 8:25		White	F		113 DOD hypotensive
67045		CT ABDOMEN PELVIS W IV CONTRAST	3/23/2011 23:29		White	F		101 DOD hypotensive
67050		CT ANGIO CHEST WO AND W CONTRAST	8/21/2011 6:23		White	M		118 DOD hypotensive
67053		CT ABDOMEN W IV CONTRAST	7/29/2006 5:10		White	M		151 DOD hypotensive
07033		CHEST ABDOMEN PELVIS	10/20/2001 20:03		White		151	79 DOD normotensive
6		CHEST ABDOMEN PELVIS  CHEST ABDOMEN PELVIS	4/24/2004 7:07		White			100 DOD normotensive
10		CHEST ABDOMEN PELVIS	10/31/2001 18:11		White		136	97 DOD normotensive
29		CHEST ABDOMEN PELVIS  CHEST ABDOMEN PELVIS	1/5/2004 9:50		White		136	69 DOD normotensive
29 47		CHEST ABDOMEN PELVIS  CHEST ABDOMEN PELVIS	1/21/2002 8:36		White		134 120	66 DOD normotensive
		CT THORAX W IV CONTRAS	6/6/2005 2:29	48			135	82 DOD normotensive
56								
83	1.31:4/	CHEST ABDOMEN PELVIS	7/17/2002 2:43	31	White	M	162	99 DOD normotensive

Study ID Ti	me to Scan Study Description	Study Date/Time A	Age Race	Sex	ED BP E	D Pulse Tag
88	1:36:25 CHEST ABDOMEN PELVIS	1/23/2004 10:02	50 White	М	145	93 DOD normotensive
89	1:31:07 CHEST ABD PELVIS	2/4/2004 18:28	46 White	М	143	90 DOD normotensive
114	0:42:41 CHEST ABDOMEN PELVIS	5/28/2008 9:33	37 White	М	127	90 DOD normotensive
118	0:44:07 CT ABDOMEN W IV CONTRA	9/24/2005 21:46	31 White	F	133	81 DOD normotensive
121	1:21:28 CHEST ABDOMEN PELVIS	6/13/2005 12:40	43 White	F	155	86 DOD normotensive
131	1:16:38 CHEST ABDOMEN PELVIS	7/26/2006 9:24	23 White	М	142	82 DOD normotensive
133	1:50:21 CT THORAX W IV CONTRAS	4/1/2006 2:19	24 White	М	139	77 DOD normotensive
146	2:10:55 CT THORAX W IV CONTRAS	11/18/2006 22:55	46 White	М	138	95 DOD normotensive
147	1:04:10 CHEST ABDOMEN PELVIS	10/29/2006 5:14	19 White	F.	144	92 DOD normotensive
151	1:24:28 CHEST ABDOMEN PELVIS	10/5/2004 15:32	48 White	М	140	76 DOD normotensive
151	1:57:34 CHEST ABDOMEN PELVIS	9/28/2004 17:48	29 White	F	130	72 DOD normotensive
176	1:08:44 CHEST ABDOMEN PELVIS	7/22/2003 15:58	32 White	M	134	92 DOD normotensive
177	0:38:06 ABDOMEN	4/2/2003 18:14	44 White	F	138	90 DOD normotensive
194	1:08:37 ABDOMEN	1/28/2003 18:14	49 White	F	125	85 DOD normotensive
196	1:39:11 ABDOMEN	2/9/2003 22:28	46 White	F	123	77 DOD normotensive
	1:33:58 CHEST ABDOMEN PELVIS	10/23/2006 4:00	29 White	F	151	96 DOD normotensive
207		• •				
218	0:43:18 CHEST ABDOMEN PELVIS 1:28:12 CHEST ABDOMEN PELVIS	6/14/2002 1:44	38 White	F	144	100 DOD normotensive
223		8/29/2002 22:08	48 White	F	151	47 DOD normotensive
225	0:52:30 ABDOMEN	11/11/2002 17:00	20 Black	M	150	68 DOD normotensive
228	0:55:13 CHEST ABDOMEN PELVIS	8/20/2002 15:22	23 White	F -	129	89 DOD normotensive
232	0:31:47 ABDOMEN	7/7/2002 17:52	31 White	F	125	97 DOD normotensive
236	0:36:47 ABDOMEN PELVIS	3/9/2002 3:49	24 White	M	139	78 DOD normotensive
237	7:36:49 ABDOMEN	3/13/2002 8:17	35 White	F	121	96 DOD normotensive
242	1:11:51 ABDOMEN	7/15/2002 17:24	45 White	М	144	72 DOD normotensive
243	0:20:43 ABDOMEN	8/3/2002 22:25	39 White	F	126	74 DOD normotensive
244	8:21:12 ABDOMEN	10/16/2002 21:17	48 Black	М	157	89 DOD normotensive
253	0:43:00 CHEST ABDOMEN PELVIS	4/24/2007 3:13	33 White	М	133	81 DOD normotensive
258	0:49:42 CT ABDOMEN W IV CONTRA	4/26/2007 12:29	24 White	F	121	96 DOD normotensive
262	0:39:28 CHEST ABDOMEN PELVIS	8/19/2007 5:09	29 White	М	154	90 DOD normotensive
425	20:00:06 CHEST ABDOMEN PELVIS	8/9/2002 17:18	19 White	М	125	98 DOD normotensive
427	1:54:11 CHEST ABDOMEN PELVIS	8/4/2002 15:37	42 White	F	157	96 DOD normotensive
432	1:02:20 ABDOMEN	9/15/2002 20:37	36 White	М	176	92 DOD normotensive
438	0:56:54 CHEST ABDOMEN PELVIS	3/17/2003 20:31	40 White	М	142	85 DOD normotensive
440	1:06:41 ABDOMEN	4/27/2003 20:08	26 White	М	140	71 DOD normotensive
441	1:11:29 CHEST ABDOMEN PELVIS	5/18/2003 18:01	26 White	М	152	63 DOD normotensive
444	0:49:57 ABDOMEN	5/17/2003 14:08	42 White	F	133	80 DOD normotensive
445	1:04:08 CHEST ABDOMEN PELVIS	6/24/2003 12:56	24 White	М	144	61 DOD normotensive
481	2:14:59 ABDOMEN	6/26/2003 16:09	20 White	М	143	80 DOD normotensive
485	1:04:52 ABDOMEN	11/27/2004 18:52	40 White	М	126	74 DOD normotensive
492	1:58:34 ABDOMEN	12/8/2002 1:08	45 White	М	133	72 DOD normotensive
493	1:12:45 ABDOMEN PELVIS	12/10/2002 12:03	45 White	М	159	78 DOD normotensive
495	2:29:48 ABDOMEN	5/7/2004 6:23	43 White	М	165	86 DOD normotensive
508	1:34:46 ABDOMEN	11/24/2004 17:51	40 White	М	140	88 DOD normotensive
511	0:46:07 ABDOMEN	11/28/2004 18:56	22 White	М	158	96 DOD normotensive
513	1:03:07 ABDOMEN PELVIS	12/2/2004 12:33	34 White	М	137	79 DOD normotensive
514	0:52:18 ABDOMEN PELVIS	12/3/2004 14:08	35 White	F	129	93 DOD normotensive
515	1:32:23 ABDOMEN	12/2/2004 3:01	42 White	М	146	93 DOD normotensive
516	1:09:38 ABDOMEN	12/4/2004 5:02	44 White	М	174	97 DOD normotensive
530 -0	6:56:32 CT ABDOMEN W CONTRAST=AB	6/28/2008 7:18	49 White	F	138	88 DOD normotensive
533	2:10:18 ABDOMEN	9/23/2004 13:37	42 White	F	194	95 DOD normotensive
534	5:33:39 ABDOMEN	10/10/2004 15:52	40 Black	М	134	80 DOD normotensive
535	0:49:33 CHEST ABDOMEN PELVIS	10/14/2004 6:21	20 Black	F	114	93 DOD normotensive

Study ID Ti	me to Scan Study Description	Study Date/Time A	Age Race	Sex	ED BP EI	D Pulse Tag
538	1:22:00 ABDOMEN	10/8/2004 22:29	49 White	F	147	85 DOD normotensive
539	1:12:55 CHEST ABDOMEN PELVIS	10/13/2004 12:23	32 Other	М	147	84 DOD normotensive
540	0:49:37 ABDOMEN PELVIS	10/12/2004 14:11	44 Black	М	146	76 DOD normotensive
554	4:44:10 CT THORAX W IV CONTRAS	8/9/2008 12:59	21 White	М	129	78 DOD normotensive
573	5:46:11 CHEST ABDOMEN PELVIS	9/13/2004 2:11	25 White	F	100	122 DOD normotensive
574	14:21:40 ABDOMEN	9/15/2004 8:27	21 White	F	131	58 DOD normotensive
577	1:22:32 CHEST ABDOMEN PELVIS	9/22/2004 10:20	48	F	139	73 DOD normotensive
584	1:04:21 CHEST ABDOMEN PELVIS	8/9/2004 8:52	40 White	M	162	85 DOD normotensive
593	0:53:38 CHEST ABDOMEN PELVIS	7/24/2004 17:38	39 White	M	146	75 DOD normotensive
599	0:48:36 CHEST ABDOMEN PELVIS	6/20/2004 1:32	45 White	M	144	94 DOD normotensive
601	1:59:11 CHEST ABDOMEN PELVIS	6/29/2004 23:47	19 White	M	142	69 DOD normotensive
602	1:01:01 CHEST ABDOMEN PELVIS	7/4/2004 14:52	40 Black	M	165	81 DOD normotensive
606	0:48:50 CHEST ABDOMEN PELVIS	7/19/2004 18:58	38 White	M	160	78 DOD normotensive
607	0:48:48 CHEST ABDOMEN PELVIS	7/21/2004 3:07	19 White	M	156	95 DOD normotensive
610	1:13:11 CHEST ABDOMEN PELVIS	6/24/2004 9:44	34 White	F	127	96 DOD normotensive
	0:45:24 CHEST ABDOMEN PELVIS		40 White		151	77 DOD normotensive
614		6/15/2003 23:30		M		
618	2:00:36 CHEST ABDOMEN PELVIS	7/2/2003 20:22	40 White	M	147	98 DOD normotensive
626	0:40:52 CHEST ABDOMEN PELVIS	9/14/2003 15:31	40 White	M	126	85 DOD normotensive
636	4:18:47 CHEST ABDOMEN PELVIS	5/13/2004 5:44	45 White	M	140	80 DOD normotensive
639	1:34:33 CHEST ABDOMEN PELVIS	5/31/2004 17:29	33 Black	M	171	93 DOD normotensive
640	1:24:52 CHEST ABDOMEN PELVIS	5/29/2004 19:34	39 White	M	133	64 DOD normotensive
641	1:14:01 ABDOMEN	8/31/2004 22:46	31 White	M	155	87 DOD normotensive
650	1:24:29 CHEST ABDOMEN PELVIS	8/8/2004 21:12	49 White	M	131	86 DOD normotensive
653	1:27:36 ABDOMEN	8/6/2004 23:30	47	M	138	80 DOD normotensive
654	1:03:09 ABDOMEN	8/21/2004 18:03	24 White	M	155	82 DOD normotensive
655	2:48:19 ABDOMEN	9/3/2004 2:18	40 Black	M	161	91 DOD normotensive
656	1:16:13 ABDOMEN	9/2/2004 16:42	44 White	M	152	72 DOD normotensive
657	2:46:24 ABDOMEN	8/27/2004 23:26	42 White	M	138	98 DOD normotensive
658	0:36:41 ABDOMEN	8/29/2004 9:16	26 White	M	134	77 DOD normotensive
660	2:33:53 ABDOMEN	8/28/2004 19:00	30 White	F	140	93 DOD normotensive
661	3:39:03 CHEST ABDOMEN PELVIS	8/19/2004 22:25	28 White	M	169	76 DOD normotensive
662	1:05:52 ABDOMEN	9/6/2004 12:44	24 White	M	137	79 DOD normotensive
664	1:24:33 ABDOMEN	9/25/2004 17:52	43 White	M	154	66 DOD normotensive
668	1:02:18 CHEST ABDOMEN PELVIS	10/30/2004 16:44	31 Hispanic	M	129	91 DOD normotensive
678	0:37:36 CHEST ABDOMEN PELVIS	12/8/2002 22:15	47 White	M	143	90 DOD normotensive
698	2:20:30 CHEST ABDOMEN PELVIS	8/19/2004 20:55	37 White	M	130	72 DOD normotensive
708	1:11:31 CHEST ABDOMEN PELVIS	2/8/2002 10:02	43 White	M	135	96 DOD normotensive
710	0:38:18 ABDOMEN PELVIS	3/25/2002 15:08	33 White	F	128	68 DOD normotensive
712	1:11:31 ABDOMEN PELVIS	2/21/2002 22:14	40 White	F	126	100 DOD normotensive
723	1:30:42 CHEST ABDOMEN PELVIS	7/5/2002 3:20	42 White	M	124	71 DOD normotensive
730	0:52:49 ABDOMEN	5/25/2002 4:50	20 White	M	135	90 DOD normotensive
741	0:53:31 CHEST ABDOMEN PELVIS	6/21/2002 17:08	44 White	F	136	74 DOD normotensive
742	0:59:51 CHEST ABDOMEN PELVIS	6/22/2002 0:42	47 White	M	136	64 DOD normotensive
743	4:29:13 CHEST ABDOMEN PELVIS	6/27/2002 1:28	50 White	F	148	81 DOD normotensive
747	0:37:21 ABDOMEN	7/6/2002 21:56	36 White	F	142	92 DOD normotensive
759	1:28:47 CHEST ABDOMEN PELVIS	10/17/2002 17:30	36 White	F	121	80 DOD normotensive
760	1:06:49 ABDOMEN PELVIS	10/23/2002 14:58	45 White	F	162	83 DOD normotensive
771	0:51:11 ABDOMEN PELVIS	12/17/2002 4:21	19 Asian	M	128	90 DOD normotensive
775	1:44:44 ABDOMEN PELVIS	2/5/2003 0:44	33 White	F	125	96 DOD normotensive
776	0:56:13 ABDOMEN PELVIS	1/31/2003 12:05	44 White	M	120	82 DOD normotensive
777	1:36:07 ABDOMEN PELVIS	2/10/2003 22:06	26 Black	M	120	62 DOD normotensive
782	0:55:06 ABDOMEN PELVIS	2/27/2003 19:53	33 White	F	151	75 DOD normotensive

Study ID	Time to Scan Study Description	Study Date/Time Ag	ge Race	Sex	ED BP	ED Pulse Tag
794	1:03:41 ABDOMEN PELVIS		21 White	F	134	88 DOD normotensive
798	1:12:05 CHEST ABDOMEN PELVIS		31 White	F	135	92 DOD normotensive
799	1:03:32 CHEST ABDOMEN PELVIS		45 White	F	140	76 DOD normotensive
800	2:47:30 CHEST ABDOMEN PELVIS		40 White	М	146	93 DOD normotensive
801	2:02:05 CHEST ABDOMEN PELVIS		48 Black	М	157	88 DOD normotensive
805	1:01:53 CHEST ABDOMEN PELVIS		21 White	F	137	82 DOD normotensive
813	11:18:18 CHEST ABDOMEN PELVIS		36 White	F	168	70 DOD normotensive
816	1:13:33 ABDOMEN PELVIS		24 White	M	151	88 DOD normotensive
819	1:28:22 CHEST ABDOMEN PELVIS		21 White	F	175	80 DOD normotensive
820	0:49:58 CHEST ABDOMEN PELVIS		24 White	М	163	76 DOD normotensive
823	0:39:32 ABDOMEN PELVIS		31 White	M	150	68 DOD normotensive
826	1:33:43 ABDOMEN		20 White	M	131	97 DOD normotensive
828	0:42:45 ABDOMEN		27 White	M	142	78 DOD normotensive
833	2:22:58 CHEST ABDOMEN PELVIS		31 White	F	142	74 DOD normotensive
837	0:49:57 CHEST ABDOMEN PELVIS	• •	25 White	M	150	79 DOD normotensive
838	0:49:24 CHEST ABDOMEN PELVIS	• •	35 White	M	123	92 DOD normotensive
847	1:20:30 CHEST ABDOMEN PELVIS		43 White	M	140	90 DOD normotensive
861	0:42:30 CHEST ABDOMEN PELVIS		30 Asian	M	133	63 DOD normotensive
	0:59:34 CHEST ABDOMEN PELVIS		45 White	F	212	
864		• •	50 White		151	89 DOD normotensive
865	1:40:34 CHEST ABDOMEN PELVIS	• •		M		80 DOD normotensive
867	1:05:38 CHEST ABDOMEN PELVIS	• •	25 White	M	142	100 DOD normotensive
878	3:24:42 ABDOMEN PELVIS	• •	23 White	F	137	99 DOD normotensive
883	1:13:54 CHEST ABDOMEN PELVIS		42 White	M	146	81 DOD normotensive
886	1:32:35 CHEST ABDOMEN PELVIS	• •	42 White	F	137	84 DOD normotensive
887	1:26:13 CHEST ABDOMEN PELVIS	• •	27 White	M	141	95 DOD normotensive
898	0:48:19 ABDOMEN	, ,	22 Black	F	123	48 DOD normotensive
903	1:29:12 ABDOMEN	• •	34 White	M	132	83 DOD normotensive
918	1:30:37 CHEST ABDOMEN PELVIS	, ,	30 White	M	138	74 DOD normotensive
979	0:45:05 CHEST ABDOMEN PELVIS	• •	40 White	F	134	90 DOD normotensive
987	0:48:38 ABDOMEN	<i>, ,</i>	45 White	M	165	79 DOD normotensive
990	0:52:30 ABDOMEN PELVIS	• •	19 White	F	137	73 DOD normotensive
991	7:09:39 CHEST ABDOMEN PELVIS	, ,	40 White	M -	154	86 DOD normotensive
993	1:24:41 ABDOMEN PELVIS	• •	24 White	F	120	94 DOD normotensive
994	1:23:33 CHEST ABDOMEN PELVIS	• •	38 White	M	163	95 DOD normotensive
996	1:29:32 ABDOMEN PELVIS	.,.,	23 White	M	151	97 DOD normotensive
998	0:49:02 CHEST ABDOMEN PELVIS		37 White	M -	135	87 DOD normotensive
1006	0:51:02 ABDOMEN	, ,	23 White	F -	125	88 DOD normotensive
1007	2:12:19 ABDOMEN	, ,	39 Black	F -	161	91 DOD normotensive
1008	1:11:48 ABDOMEN		45 White	F	172	100 DOD normotensive
1059	0:46:20 CHEST ABDOMEN PELVIS	• •	19 Black	M	149	90 DOD normotensive
1509	0:39:01 CHEST ABDOMEN PELVIS	• •	47 White	F -	125	100 DOD normotensive
1606	1:13:17 CHEST ABDOMEN PELVIS		27 White	F	131	90 DOD normotensive
1608	0:52:33 CHEST ABDOMEN PELVIS		50 White	M	177	60 DOD normotensive
1612	0:51:09 CHEST ABDOMEN PELVIS	, ,	23 White	F	129	91 DOD normotensive
1635	0:46:54 CHEST ABDOMEN PELVIS		24 White	M	138	63 DOD normotensive
1736	1:03:31 CHEST ABDOMEN PELVIS	, ,	29 White	F -	77	88 DOD normotensive
1739	1:11:45 CHEST ABDOMEN PELVIS		20 White	F -	135	101 DOD normotensive
1744	1:53:11 CHEST ABDOMEN PELVIS		41 White	F	123	78 DOD normotensive
1778	0:59:01 CHEST ABDOMEN PELVIS		45 White	M -	167	84 DOD normotensive
1787	1:28:35 CHEST ABDOMEN PELVIS	• •	26 White	F	129	86 DOD normotensive
2420	0:49:34 CHEST ABDOMEN PELVIS		35 White	M	181	66 DOD normotensive
3044	1:02:18 CHEST/ABD/PELVIS	7/3/2000 14:20	38 White	М	126	78 DOD normotensive

Study ID	Time to Scan Study Description	Study Date/Time	Age Race	Sex	ED BP E	ED Pulse Tag
3055	0:56:13 ABDOMEN PELVIS	12/7/2001 0:27	34 White	М	121	77 DOD normotensive
3058	1:00:57 CHEST ABDOMEN PELVIS	5/22/2001 15:29	37 White	F	133	94 DOD normotensive
3064	1:02:09 ABDOMEN	5/23/2001 11:39	39 White	М	153	71 DOD normotensive
3065	1:02:54 ABDOMEN	8/25/2001 7:14	21 White	М	134	72 DOD normotensive
3069	0:39:00 CT THORAX W IV CONTRAS	10/21/2009 2:03	28 White	М	159	100 DOD normotensive
3083	1:23:47 CHEST ABDOMEN PELVIS	6/28/2009 4:13	31 White	М	147	100 DOD normotensive
3087	0:51:54 CHEST ABDOMEN PELVIS	6/28/2009 22:44	39 White	F	99	112 DOD normotensive
3091	1:24:30 CHEST ABDOMEN PELVIS	6/27/2009 22:35	19 White	M	140	90 DOD normotensive
3092	2:30:38 CHEST ABDOMEN PELVIS	6/27/2009 23:28	19 White	F	105	112 DOD normotensive
3094	0:34:29 CHEST ABDOMEN PELVIS	6/26/2009 17:39	41 White	M	138	100 DOD normotensive
3098	0:40:41 CHEST ABDOMEN PLEVIS	6/21/2009 1:57	26 Black	M	130	96 DOD normotensive
3100	3:25:44 CHEST ABDOMEN PELVIS	6/20/2009 9:15	24 Black	M	154	84 DOD normotensive
3115	1:08:50 CHEST ABDOMEN PELVIS	6/7/2009 19:14	19 White	F	118	76 DOD normotensive
3113	1:48:20 CT THORAX W IV CONTRAST	6/6/2009 22:08	22 White	M	154	90 DOD normotensive
3138	1:18:44 CT THORAX W IV CONTRAST	5/24/2009 22:02	42 White	M	123	79 DOD normotensive
3143	0:24:53 CT THORAX W IV CONTRAST	5/21/2009 22:33	31 White	M	139	97 DOD normotensive
3143	4:30:42 CT THORAX W IV CONTRAST	5/17/2009 21:28	47 White		167	77 DOD normotensive
3152	0:40:41 CHEST ABDOMEN PELVIS	1/3/2010 16:49	40 White	M	149	80 DOD normotensive
				M		
3157	0:41:51 CHEST ABDOMEN PELVIS	4/11/2002 10:37	49 White	M	194	88 DOD normotensive
3166	0:55:21 CHEST ABDOMEN PELVIS	8/26/2006 2:24	23 White	M	123	94 DOD normotensive
3186	0:28:26 CT THORAX W IV CONTRAST	11/11/2009 16:40	43 White	M	149	51 DOD normotensive
3192	0:44:10 CHEST ABDOMEN PELVIS	1/19/2010 9:11	48 White	M	123	71 DOD normotensive
3196	0:48:42 CT THORAX W IV CONTRAST	3/18/2010 23:13	38 White	M	136	92 DOD normotensive
3203	5:40:43 CHEST ABDOMEN PELVIS	5/8/2009 4:04	19 White	F	125	79 DOD normotensive
3211	0:36:59 CHEST ABDOMEN PELVIS	4/24/2009 13:33	18 White	F	110	96 DOD normotensive
3226	3:34:34 CT ABDOMEN W IV CONTRA	4/16/2009 1:13	21 White	F	126	78 DOD normotensive
3227	0:57:31 CHEST ABDOMEN PELVIS	4/14/2009 2:10	21 White	M	140	90 DOD normotensive
3237	0:46:03 CHEST ABDOMEN PELVIS	4/4/2009 20:36	50 Black	F	204	68 DOD normotensive
3238	0:35:36 CHEST ABDOMEN PELVIS	4/2/2009 13:10	37 White	F	120	87 DOD normotensive
3240	12:54:04 CT ABDOMEN W IV CONTRA	3/27/2009 12:57	46 White	M	144	80 DOD normotensive
3244	1:00:43 CHEST ABDOMEN PELVIS	3/22/2009 12:09	35 White	F	135	100 DOD normotensive
3247	0:47:55 CHEST ABDOMEN PELVIS	3/23/2009 1:13	36 White	F	110	124 DOD normotensive
3258	0:38:25 CT THORAX W IV CONTRAS	3/10/2009 12:44	50 Black	М	229	83 DOD normotensive
3261	1:33:43 chest abdomen pelvis	3/8/2009 3:13	21 Black	М	137	84 DOD normotensive
3264	0:31:49 CHEST ABDOMEN PELVIS	3/5/2009 22:33	19 White	М	135	87 DOD normotensive
3265	0:33:06 CT ABDOMEN W IV CONTRA	3/5/2009 15:41	40 Black	М	162	70 DOD normotensive
3270	2:13:03 CT ABDOMEN W IV CONTRA	2/26/2009 11:32	45 White	F	124	84 DOD normotensive
3271	0:46:38 CHEST ABDOMEN PELVIS	2/24/2009 17:29	28 White	F	132	94 DOD normotensive
3282	0:36:11 CHEST ABDOMEN PELVIS	2/7/2009 12:35	20 White	М	145	67 DOD normotensive
3284	0:59:53 CHEST ABDOMEN PELVIS	2/7/2009 0:25	39 Black	М	149	100 DOD normotensive
3285	0:52:54 CHEST ABDOMEN PELVIS	2/6/2009 12:15	35 White	F	152	67 DOD normotensive
3286	0:43:13 CHEST ABDOMEN PELVIS	2/1/2009 18:03	21 White	F	147	105 DOD normotensive
3287	0:35:27 CT THORAX W IV CONTRAS	1/29/2009 18:35	27 White	M	139	77 DOD normotensive
3297	1:14:44 CHEST ABDOMEN PELVIS	1/19/2009 9:26	37 Black	M	145	62 DOD normotensive
3303	0:59:41 CHEST ABDOMEN PELVIS	1/11/2009 14:41	31 Asian	М	148	70 DOD normotensive
3304	0:42:12 CHEST ABDOMEN PELVIS	1/8/2009 17:31	49 White	М	128	75 DOD normotensive
3307	2:47:54 CT ABDOMEN W IV CONTRA	1/7/2009 0:58	18 Black	М	195	97 DOD normotensive
3313	0:41:04 CHEST ABDOMEN PELVIS	12/15/2008 11:36	48 White	М	123	74 DOD normotensive
3316	3:50:48 CHEST ABDOMEN PELVIS	12/14/2008 18:16	40 White	М	169	69 DOD normotensive
3322	0:30:11 CHEST ABDOMEN PELVIS	12/7/2008 8:55	29 White	М	147	86 DOD normotensive
3372	1:36:25 CHEST ABDOMEN PELVIS	1/23/2004 10:02	50 White	М	145	93 DOD normotensive
3379	0:47:24 CT THORAX W IV CONTRAST	12/6/2008 2:47	36 White	F	128	65 DOD normotensive

Study ID	Time to Scan Study Description	Study Date/Time Age Ra	ace Sex FD I	BP ED Pulse Tag
3392	0:55:49 CHEST ABDOMEN PELVIS	12/4/2008 21:17 23 W		49 99 DOD normotensive
3394	6:45:28 CHEST ABDOMEN PELVIS	12/1/2008 21:47 19 W		26 83 DOD normotensive
3405	0:57:07 CHEST ABDOMEN PELVIS	11/24/2008 23:05 29 W		49 89 DOD normotensive
3424	1:27:47 CHEST ABDOMEN PELVIS	11/22/2008 3:42 44 Bla		37 83 DOD normotensive
3425	0:38:46 CHEST ABDOMEN PELVIS	11/22/2008 5:57 43 W		41 64 DOD normotensive
3426	4:19:18 CT THORAX W IV CONTRAST	11/22/2008 6:33 40 Bla		31 93 DOD normotensive
3427	0:56:14 CHEST ABDOMEN PELVIS	11/22/2008 21:01 47 W		25 90 DOD normotensive
3428	3:33:50 CHEST ABDOMEN PELVIS	11/18/2008 22:18 28 W		40 72 DOD normotensive
3431	1:11:01 CHEST ABDOMEN PELVIS	11/17/2008 9:11 32 W		39 79 DOD normotensive
3433	0:45:28 CT THORAX W IV CONTRAST	11/16/2008 2:56 23 Bla		52 64 DOD normotensive
3434	0:37:38 CT THORAX W IV CONTRAST	11/16/2008 4:52		56 90 DOD normotensive
3439	0:52:40 CHEST ABDOMEN PELVIS	11/10/2008 9:32 49 W		27 53 DOD normotensive
3446	0:55:32 CHEST ABDOMEN PELVIS	11/6/2008 18:41 44 W		59 89 DOD normotensive
3455	0:55:38 CHEST ABDOMEN PELVIS	10/26/2008 1:46 38 W		30 36 DOD normotensive
3505	0:22:02 CHEST ABDOMEN PELVIS	10/20/2008 1:40 38 W 10/12/2008 9:30 21 W		34 66 DOD normotensive
3508	0:44:52 CHEST ABDOMEN PELVIS	10/12/2008 3:30 21 W 10/12/2008 1:10 32 W		29 94 DOD normotensive
3512	0:29:19 CT THORAX W IV CONTRAS	10/11/2008 19:40 48 W		40 76 DOD normotensive
3512	0:38:12 CT THORAX W IV CONTRAS	10/11/2008 13:40 48 W 10/9/2008 13:42 47 W		53 82 DOD normotensive
3513	0:55:26 CHEST ABDOMEN PELVIS	10/9/2008 10:36 47 W		49 62 DOD normotensive
3983	5:17:04 CHEST ABDOMEN PELVIS	·		18 90 DOD normotensive
3985	0:41:39 CHEST ABDOMEN PELVIS			35 88 DOD normotensive
3987	3:13:12 CHEST ABDOMEN PELVIS	.,.,		
4346	0:38:30 CHEST ABDOMEN PELVIS	9/29/2008 3:03 25 W		50 90 DOD normotensive
4355	0:43:45 CHEST ABDOMEN PELVIS	9/27/2008 3:09 48 W		48 86 DOD normotensive 35 78 DOD normotensive
4371	0:48:49 CHEST ABDOMEN PELVIS	9/2/2008 17:25 33 W		
4375	1:18:23 CT THORAX W IV CONTRAS  0:48:42 CHEST ABDOMEN PELVIS	8/30/2008 1:19 49 W 8/28/2008 19:57 46 W		40 90 DOD normotensive 68 86 DOD normotensive
4376		. ,		
4380	0:40:13 CHEST ABDOMEN PELVIS	8/29/2008 12:13     24 W 8/23/2008 12:29     48 W		<ul><li>90 DOD normotensive</li><li>63 DOD normotensive</li></ul>
4383	0:58:01 CHEST ABDOMEN PELVIS	. ,		
4385	0:49:00 CHEST ABDOMEN PELVIS	8/21/2008 19:59 47 W		50 92 DOD normotensive 36 93 DOD normotensive
6957	0:44:01 CHEST ABDOMEN PELVIS 3:50:34 CHEST ABDOMEN PELVIS	8/16/2008 4:48     24   W 8/15/2008 17:44     46   W		<ul><li>36 93 DOD normotensive</li><li>64 95 DOD normotensive</li></ul>
6959		. ,		
6966	0:35:42 CHEST ABDOMEN PELVIS 0:54:50 CT THORAX W IV CONTRAS	8/10/2008 11:03 25 W		46 78 DOD normotensive 45 68 DOD normotensive
6997	0:39:12 CT ABDOMEN W IV CONTRAST	8/9/2008 12:01 38 W 8/9/2008 5:22 25 Hi		
6998			•	
7000	0:41:21 CHEST ABDOMEN PELVIS	8/8/2008 3:33 37 Bla 8/4/2008 16:31 38 W		<ul><li>38 93 DOD normotensive</li><li>52 91 DOD normotensive</li></ul>
7002 7009	3:33:00 CHEST ABDOMEN PELVIS 0:37:58 CT THORAX W IV CONTRAS	8/4/2008 16:31 38 W 7/30/2008 16:42 22 W		<ul><li>91 DOD normotensive</li><li>81 DOD normotensive</li></ul>
7010	0:43:16 CHEST ABDOMEN PELVIS	7/30/2008 10:42 22 W		
7010	0:43:16 CHEST ABDOMEN PELVIS 0:54:27 CHEST ABDOMEN PELVIS	7/30/2008 4:42 47 Bio 7/27/2008 3:31 32 W		<ul><li>98 DOD normotensive</li><li>74 DOD normotensive</li></ul>
7013	0:46:23 CT THORAX W IV CONTRAS	7/26/2008 11:37 21 W		
7016	0:57:59 CHEST ABDOMEN PELVIS	7/30/2008 11:37 21 W 7/30/2008 23:42 45 W		<ul><li>91 DOD normotensive</li><li>86 DOD normotensive</li></ul>
7020	0:53:03 CHEST ABDOMEN PELVIS	7/4/2008 21:56 46 W		28 57 DOD normotensive
7034	0:41:47 CHEST ABDOMEN PELVIS	7/4/2008 21:30 40 W 7/1/2008 18:37 19 W		13 83 DOD normotensive
7030	3:37:04 CHEST ABDOMEN PELVIS	7/1/2008 18:37 19 W 7/1/2008 14:02 50 W		29 61 DOD normotensive
7048 7050	9:38:27 CHEST ABDOMEN PELVIS 0:42:11 CHEST ABDOMEN PELVIS	6/25/2008 23:47 43 W 6/22/2008 20:22 29 W		<ul><li>89 DOD normotensive</li><li>90 DOD normotensive</li></ul>
		·		
7809 7810	1:35:44 CHEST ABDOMEN PELVIS 0:36:32 CHEST ABDOMEN PELVIS	6/22/2008 22:17 45 W 6/21/2008 1:05 24 W		<ul><li>73 DOD normotensive</li><li>93 DOD normotensive</li></ul>
7810 7010		·		
7818 7822	0:35:28 CHEST ABDOMEN PELVIS 8:13:06 CHEST ABDOMEN PELVIS	6/19/2008 15:03 20 W 6/16/2008 5:23 28 W		<ul><li>66 DOD normotensive</li><li>74 DOD normotensive</li></ul>
7822 7826		·		
7826	5:07:32 CHEST ABDOMEN PELVIS	6/11/2008 12:41 25 W	hite M 1	77 79 DOD normotensive

Study ID T	ime to Scan Study Description	Study Date/Time	Age Race	Sex	ED BP	ED Pulse Tag
7828	3:48:58 CT THORAX W IV CONTRAS	6/10/2008 7:28	38 White	М	156	87 DOD normotensive
7830	2:58:11 CHEST ABDOMEN PELVIS	4/6/2008 23:18	22 Black	М	151	73 DOD normotensive
7832	0:30:57 CHEST ABDOMEN PELVIS	6/1/2008 13:06	28 White	М	156	85 DOD normotensive
7837	1:55:48 CHEST ABDOMEN PELVIS	6/9/2008 18:21	37 White	М	140	71 DOD normotensive
7840	1:02:15 CT THORAX W IV CONTRAS	6/8/2008 10:35	50 Black	М	142	76 DOD normotensive
7845	3:09:25 CHEST ABDOMEN PELVIS	5/25/2008 21:17	49 Black	F	148	115 DOD normotensive
7846	1:28:08 CHEST ABDOMEN PELVIS	5/25/2008 5:21	24 White	М	132	87 DOD normotensive
7850	0:49:20 CHEST ABDOMEN PELVIS	5/23/2008 2:05	32 White	F	129	110 DOD normotensive
7865	3:00:25 CHEST ABDOMEN PELVIS	5/10/2008 7:49	36 White	М	138	98 DOD normotensive
7867	0:37:20 CHEST ABDOMEN PELVIS	5/10/2008 22:53	23 White	М	139	90 DOD normotensive
7872	5:26:06 CHEST ABDOMEN PELVIS	5/5/2008 22:49	19 White	М	135	77 DOD normotensive
7875	0:50:19 CT THORAX W IV CONTRAS	5/4/2008 4:03	27 White	М	127	91 DOD normotensive
7884	0:50:59 CHEST ABDOMEN PELVIS	4/30/2008 17:58	49 White	М	162	78 DOD normotensive
7887	0:34:36 CHEST ABDOMEN PELVIS	4/25/2008 3:52	43 White	М	125	83 DOD normotensive
7888	0:59:36 CT THORAX W IV CONTRAS	4/25/2008 0:33	50 White	М	157	83 DOD normotensive
7889	3:01:46 CHEST ABDOMEN PELVIS	4/27/2008 20:49	21 White	M	158	73 DOD normotensive
7890	1:04:11 CHEST ABDOMEN PELVIS	4/28/2008 15:14	19 White	M	134	83 DOD normotensive
7891	0:42:47 CHEST ABDOMEN PELVIS	4/22/2008 9:58	46 White	M	198	92 DOD normotensive
7892	1:14:04 CT THORAX W IV CONTRAS	4/22/2008 22:07	25 White	M	139	91 DOD normotensive
7894	1:34:33 CHEST ABDOMEN PELVIS	4/21/2008 9:19	20 White	M	177	99 DOD normotensive
7897	0:52:51 CHEST ABDOMEN PELVIS	4/19/2008 12:29	26 White	F	146	93 DOD normotensive
7902	0:42:44 CHEST ABDOMEN PELVIS	4/12/2008 14:57	21 White	M	161	75 DOD normotensive
7905	1:18:54 CHEST ABDOMEN PELVIS	4/6/2008 2:21	38 Hispanic	M	150	71 DOD normotensive
7903	0:31:38 CHEST ABDOMEN PELVIS	3/23/2008 0:30	47 White	M	136	98 DOD normotensive
7914 7917	0:41:08 CHEST ABDOMEN PELVIS	3/20/2008 16:31	31 White	M	136	85 DOD normotensive
	0:58:53 CHEST ABDOMEN PELVIS	3/19/2008 3:16	43 White		138	96 DOD normotensive
7919				M	149	
7920	0:47:00 CHEST ABDOMEN PELVIS	3/15/2008 12:42	20 White	M		100 DOD normotensive
7922	0:30:33 CHEST ABDOMEN PELVIS	3/14/2008 10:45	38 Hispanic	M	127 134	97 DOD normotensive 98 DOD normotensive
7923	5:31:06 CHEST ABDOMEN PELVIS	3/5/2008 1:26	31 White	M		
7925 7027	10:28:11 CHEST ABDOMEN PELVIS 2:14:51 CHEST ABDOMEN PELVIS	3/10/2008 15:04 3/16/2008 18:52	31 White	M	140 144	88 DOD normotensive 98 DOD normotensive
7927		• •	19 Hispanic	M		
7929	0:35:16 CHEST ABDOMEN PELVIS	2/29/2008 20:13	41 White	М	132	83 DOD normotensive
7930	0:38:42 CT THORAX W IV CONTRAS	2/26/2008 22:00	34 White	F	151	84 DOD normotensive
7931	1:03:47 CHEST ABDOMEN PELVIS	2/25/2008 13:40	43 Hispanic	M	154	78 DOD normotensive
7933	0:35:53 CHEST ABDOMEN PELVIS	2/26/2008 10:51 2/19/2008 23:30		M	156	87 DOD normotensive
7940	0:45:07 CHEST ABDOMEN PELVIS			M	158	119 DOD normotensive
7942	0:53:21 CHEST ABDOMEN PELVIS 1:41:59 CT THORAX W IV CONTRAS	2/10/2008 2:24 2/5/2008 23:40	25 White 22 Black	M	150	93 DOD normotensive
7949		• •		M	145	85 DOD normotensive
7952	0:39:34 CHEST ABDOMEN PELVIS	2/2/2008 9:16	39 White	F	117	117 DOD normotensive
7954	3:04:45 CHEST ABDOMEN PELVIS	2/1/2008 23:26	45 White	M	152	87 DOD normotensive
7955	0:24:34 CHEST ABDOMEN PELVIS	2/1/2008 12:32	21 Black	M	134	86 DOD normotensive
7960	0:42:29 CT THORAX W IV CONTRAS	3/12/2008 20:06	19 White	M	154	80 DOD normotensive
7965	0:24:02 CHEST ABDOMEN PELVIS	1/20/2008 8:27	21 White	M	115	82 DOD normotensive
7969	0:45:53 CHEST ABDOMEN PELVIS	1/18/2008 0:17	36 White	M	132	96 DOD normotensive
7980	0:48:06 CHEST ADDOMEN PELVIS	1/1/2008 17:48	41 Black	F	221	72 DOD normotensive
7990 7003	1:57:31 CHEST ABDOMEN PELVIS	12/20/2007 2:19	44 White	М	166	100 DOD normotensive
7992	0:51:10 CHEST ABDOMEN PELVIS	12/20/2007 12:46	40 Black	F	131	67 DOD normotensive
7995 7006	2:21:55 CHEST ABDOMEN PELVIS	12/17/2007 1:34	38 White	F	143	85 DOD normotensive
7996	0:58:10 CHEST ABDOMEN PELVIS	12/15/2007 3:11		M	121	68 DOD normotensive
8009	0:47:46 CHEST ABDOMEN PELVIS	5/11/2008 10:04	24 White	M	149	76 DOD normotensive
8863	0:57:18 CHEST ABDOMEN PELVIS	12/13/2007 5:43	21 White	M	140	96 DOD normotensive
8864	1:07:01 CHEST ABDOMEN PELVIS	12/13/2007 6:30	44 White	М	145	88 DOD normotensive

Study ID	Time to Scan Study Description	Study Date/Time A	Age Race	Sex	ED BP E	D Pulse Tag
8866	0:54:25 CHEST ABDOMEN PELVIS	12/12/2007 4:38	36 Hispanic	М	140	97 DOD normotensive
8868	1:20:56 CHEST ABDOMEN PELVIS	12/11/2007 3:42	38 Black	М	183	80 DOD normotensive
8873	0:41:12 CHEST ABDOMEN PELVIS	12/7/2007 18:31	23 White	F	118	86 DOD normotensive
8875	0:45:05 CHEST ABDOMEN PELVIS	12/6/2007 14:08	25 Black	М	150	88 DOD normotensive
8877	0:56:29 CHEST ABDOMEN PELVIS	12/4/2007 18:15	21 White	М	122	94 DOD normotensive
8879	2:07:10 CHEST ABDOMEN PELVIS	12/3/2007 10:30	19 White	F	125	84 DOD normotensive
8881	8:56:08 CHEST ABDOMEN PELVIS	12/1/2007 17:23	45 Hispanic	М	139	51 DOD normotensive
8894	0:33:15 CHEST ABDOMEN PELVIS	11/11/2007 18:04	18 White	М	159	78 DOD normotensive
8895	0:49:28 CHEST ABDOMEN PELVIS	11/11/2007 2:46	19 White	М	157	84 DOD normotensive
8898	0:48:09 CHEST ABDOMEN PELVIS	11/1/2007 14:22	44 White	F	127	85 DOD normotensive
8908	6:50:08 CHEST ABDOMEN PELVIS	10/22/2007 3:09	48 White	М	100	51 DOD normotensive
8915	0:44:20 CHEST ABDOMEN PELVIS	10/7/2007 18:23	33 White	М	142	70 DOD normotensive
8918	22:16:44 CHEST ABDOMEN PELVIS	10/10/2007 4:28	36 Black	М	142	84 DOD normotensive
8923	1:15:57 CHEST ABDOMEN PELVIS	9/30/2007 19:15	39 Other	М	120	71 DOD normotensive
8925	0:37:39 CHEST ABDOMEN PELVIS	9/29/2007 11:29	25 White	F	130	100 DOD normotensive
8926	1:03:13 CT THORAX W IV CONTRAS	9/29/2007 6:07	33 White	M	119	68 DOD normotensive
8934	0:40:00 CT THORAX W IV CONTRAS	9/22/2007 19:53	36 White	M	154	85 DOD normotensive
8937	0:53:55 CHEST ABDOMEN PELVIS	9/21/2007 9:33	36	F	149	78 DOD normotensive
8944	0:45:49 CHEST ABDOMEN PELVIS	9/19/2007 19:26	45 White	М	145	76 DOD normotensive
8946	0:50:34 CHEST ABDOMEN PELVIS	9/17/2007 19:00	25 White	M	155	80 DOD normotensive
8951	0:54:53 CHEST ABDOMEN PELVIS	9/16/2007 2:14	20 White	M	136	84 DOD normotensive
8953	0:51:28 CHEST ABDOMEN PELVIS	9/12/2007 9:19	20 White	F	149	85 DOD normotensive
9111	0:37:20 CHEST ABDOMEN PELVIS	9/9/2007 19:30	24 White	M	149	87 DOD normotensive
9116	0:54:29 CHEST ABDOMEN PELVIS	9/5/2007 22:08	28 Black	F	156	94 DOD normotensive
9118	1:01:46 CHEST ABDOMEN PELVIS	9/6/2007 0:25	32 White	r M	135	89 DOD normotensive
	0:37:40 CT THORAX W IV CONTRAS		30 White		96	43 DOD normotensive
9120		9/3/2007 5:31		M F	96 144	
9124	2:59:24 CHEST ABDOMEN PELVIS	9/1/2007 23:48	49 White			78 DOD normotensive
9125	1:46:35 CHEST ABDOMEN PELVIS	9/1/2007 18:31	29 Asian	M F	120 125	92 DOD normotensive 66 DOD normotensive
9127	2:17:12 CHEST ABDOMEN PELVIS	8/31/2007 19:42	23 Asian		134	
9129	2:19:27 CHEST ABDOMEN PELVIS 0:33:15 CHEST ABDOMEN PELVIS	8/27/2007 19:04	24 Asian	M	188	86 DOD normotensive 99 DOD normotensive
9136		8/23/2007 22:41	19 White	M		
9143	1:44:09 CHEST ABDOMEN PELVIS	8/19/2007 1:07	36 White	M	140	92 DOD normotensive
9145	0:49:33 CHEST ABDOMEN PELVIS	8/16/2007 16:19	22 White	M	181 157	76 DOD normotensive 65 DOD normotensive
9147	0:47:59 CHEST ABDOMEN PELVIS	8/15/2007 16:41	20 White	M		
9149	1:05:34 CHEST ABDOME PELVIS	8/13/2007 14:19		M	121	59 DOD normotensive
9153	0:55:42 CHEST ABDOMEN PELVIS	8/12/2007 8:15		M	122	103 DOD normotensive
9156	0:47:36 CHEST ABDOMEN PELVIS 0:50:00 CT THORAX W IV CONTRAS	8/11/2007 16:10 8/3/2007 1:30	45 White	M	175	71 DOD normotensive
9165		• •	30 Other	M	159	71 DOD normotensive
9170	1:15:57 CHEST ABDOMEN PELVIS	7/30/2007 2:48	18 White	M	118	66 DOD normotensive
9173	0:46:59 CHEST ABDOMEN PELVIS	7/28/2007 19:51	33 White	M	173	90 DOD normotensive
9179	0:58:44 CHEST ABDOMEN PELVIS	7/27/2007 0:34	49 White	M	162	70 DOD normotensive
9181	0:42:49 CHEST ABDOMEN PELVIS	7/24/2007 4:08	48 White	M	170	82 DOD normotensive
9184	1:16:53 CHEST ABDOMEN PELVIS	7/21/2007 20:04	18 White	M	149	82 DOD normotensive
9186	1:04:21 CHEST ABDOMEN PELVIS	7/22/2007 17:19	38 White	M	138	85 DOD normotensive
9187	0:52:20 CHEST ABDOMEN PELVIS	7/15/2007 19:25	45 White	M	169	76 DOD normotensive
9189	0:52:49 CT THORAX W IV CONTRAS	7/16/2007 19:09	45 White	M	140	98 DOD normotensive
9191	0:36:55 CHEST ABDOMEN PELVIS	7/20/2007 14:19	26 White	M	131	82 DOD normotensive
9194	1:03:27 CHEST ABDOMEN PELVIS	7/15/2007 2:21	35 Asian	M	141	88 DOD normotensive
9195	3:54:01 CHEST ABDOMEN PELVIS	7/18/2007 15:02	44 White	F	122	81 DOD normotensive
9200	0:29:35 CHEST ABDOMEN PELVIS	7/12/2007 13:33	19 White	M	159	74 DOD normotensive
9203	1:14:41 CHEST ABDOMEN PELVIS	7/1/2007 12:58	49 White	M	139	83 DOD normotensive
9214	1:15:13 CHEST ABDOMEN PELVIS	6/26/2007 15:35	19 White	M	149	60 DOD normotensive

Study ID T	ime to Scan Study Description	Study Date/Time	Age	Race Se	ex ED BP	ED Pulse Tag
9216	0:54:34 CHEST ABDOMEN PELVIS	7/4/2007 21:01	32	White M	132	75 DOD normotensive
9217	1:55:25 CHEST ABDOMEN PELVIS	6/20/2007 18:37	36	White M	138	89 DOD normotensive
9218	1:07:21 CHEST ABDOMEN PELVIS	7/4/2007 17:57	32	Other F	156	75 DOD normotensive
9223	1:13:08 CT THORAX W IV CONTRAS	6/29/2007 0:22	25	Black M	154	78 DOD normotensive
9230	0:44:45 CT THORAX W IV CONTRAS	6/23/2007 21:17	18	· N	157	99 DOD normotensive
9232	5:08:35 CHEST ABDOMEN PELVIS	6/22/2007 17:56	19	White M	144	95 DOD normotensive
9234	1:06:38 CHEST ABDOMEN PELVIS	6/22/2007 8:27	37	White M	155	61 DOD normotensive
9235	1:09:08 CHEST ABDOMEN PELVIS	6/21/2007 23:49	20	White M	132	81 DOD normotensive
9237	1:01:15 CHEST ABDOMEN PELVIS	6/21/2007 18:16	36			
9244	0:58:14 CHEST ABDOMEN PELVIS	6/19/2007 3:36	44	White M	153	94 DOD normotensive
9250	0:44:21 CHEST ABDOMEN PELVIS	6/16/2007 17:51	48	White M	142	76 DOD normotensive
9251	1:01:25 CHEST ABDOMEN PELVIS	6/16/2007 20:45		White M		
9258	1:07:19 CHEST ABDOMEN PELVIS	6/11/2007 4:22		White M		
9260	0:59:38 CT THORAX W IV CONTRAS	6/7/2007 10:44		Other F		
9261	0:44:57 CHEST ABDOMEN PELVIS	6/6/2007 19:37		White M		
9267	1:25:51 CHEST ABDOMEN PELVIS	6/2/2007 22:08		White M		
9268	1:17:13 CT THORAX W IV CONTRAS	5/31/2007 14:53		White M		
9269	1:03:16 CHEST ABDOMEN PELVIS	5/31/2007 21:13		White M		
9273	1:21:42 CT THORAX W IV CONTRAS	5/27/2007 17:51		White F	137	
9275	1:14:29 CHEST ABDOMEN PELVIS	5/27/2007 23:44		White M		
9279	0:41:42 CT THORAX W IV CONTRAS	5/21/2007 23:14		White M		
9280	1:00:54 CHEST ABDOMEN PELVIS	5/20/2007 10:42		White F		
9281	1:00:24 CHEST ABDOMEN PELVIS	5/20/2007 17:38		White M		
9282	0:41:30 CHEST ABDOMEN PELVIS	5/20/2007 3:52		White M		
9290	0:51:04 CHEST ABDOMEN PELVIS	5/14/2007 17:28		White M		
9292	1:37:24 CT THORAX W IV CONTRAS	5/15/2007 1:17		White F		
9293	1:09:40 CHEST ABDOMEN PELVIS	5/13/2007 5:13		White M		
9297	0:56:24 CHEST ABDOMEN PELVIS	5/6/2007 3:58		White M		
9301	0:47:45 CHEST ABDOMEN PELVIS	5/3/2007 3:30		White M		
9307	1:00:27 CHEST ABDOMEN PELVIS	5/1/2007 9:16		White F		
9324	0:47:48 CHEST ABDOMEN PELVIS	4/12/2007 18:29		White M		
9335	0:36:11 CHEST ABDOMEN PELVIS	3/30/2007 20:56		White M		
	0:49:03 CHEST ABDOMEN PELVIS	3/27/2007 14:44		White M		
9337 9357	1:23:52 CHEST ABDOMEN PELVIS	3/3/2007 2:40		White M		
9362	1:21:20 CHEST ABDOMEN PELVIS	2/27/2007 17:34				
9302	3:33:40 CHEST ABDOMEN PELVIS	2/27/2007 17:34				
9434		2/10/2007 17:02				
9434	0:49:39 CT THORAX W IV CONTRAS 1:02:19 CT THORAX W IV CONTRAS	1/30/2007 7:08				
9445	2:01:45 CHEST ABDOMEN PELVIS	1/27/2007 5:14				
9443	1:20:01 CHEST ABDOMEN PELVIS	1/23/2007 0:30		White M		
9458	1:18:07 CHEST ABDOMEN PELVIS	1/18/2007 3:00		White MWhite MWh		
9463	0:46:05 CHEST ABDOMEN PELVIS	1/12/2007 20:15				
9485	1:24:41 CT ABDOMEN W IV CONTRA	12/14/2006 12:34				
9487 9497	3:31:42 CHEST ABDOMEN PELVIS 1:16:00 CHEST ABDOMEN PELVIS	12/13/2006 18:52 12/5/2006 21:41		White M		
		• •				
9498	1:39:17 CHEST ABDOMEN PELVIS	12/2/2006 3:32		White M		
9499	1:22:37 CHEST ABDOMEN PELVIS	12/1/2006 2:04		White M		
9514 9515	0:22:02 CHEST ABDOMEN PELVIS 1:09:52 CHEST ABDOMEN PELVIS	5/28/2006 5:06 5/28/2006 14:14		White MWhite MWh		
9515 0521		5/28/2006 14:14				
9521	1:23:32 CHEST ABDOMEN PELVIS	5/24/2006 12:35		White M		
9524	10:40:30 CHEST ABDOMEN PELVIS	5/24/2006 7:25 5/24/2006 0:56		White F		
9525	1:06:20 CHEST ABDOMEN PELVIS	5/24/2006 0:56	31	White M	1 120	83 DOD normotensive

Study ID	Time to Scan Study Description	Study Date/Time A	Age Race	Sex	ED BP E	ED Pulse Tag
9528	0:53:29 CT ABDOMEN W IV CONTRA	5/16/2006 2:20	34 Hispanic	М	130	100 DOD normotensive
9533	0:51:13 CHEST ABDOMEN PELVIS	5/9/2006 20:21	36 White	М	139	87 DOD normotensive
9534	5:29:15 chest abdomen pelvis	5/9/2006 8:01	27 White	М	132	74 DOD normotensive
9540	6:43:08 CHEST ABDOMEN PELVIS	5/7/2006 21:29	49 White	F	143	89 DOD normotensive
9541	1:21:08 CHEST ABDOMEN PELVIS	5/7/2006 17:11	47 Hispanic	М	126	78 DOD normotensive
9542	1:46:59 CHEST ABDOMEN PELVIS	5/7/2006 23:01	47 White	М	149	98 DOD normotensive
9556	1:54:08 CHEST ABDOMEN PELVIS	4/7/2006 18:52	30 White	М	120	59 DOD normotensive
10543	0:27:12 CT THORAX W IV CONTRAST	7/2/2009 23:06	48 White	М	160	88 DOD normotensive
10546	1:47:54 CT THORAX W IV CONTRAST	8/12/2009 19:12	47 White	F	141	84 DOD normotensive
10552	1:32:47 CT THORAX W IV CONTRAST	8/19/2009 0:32	25 White	М	144	60 DOD normotensive
10815	0:34:56 CT THORAX W IV CONTRAST	9/9/2009 10:36	35 White	М	123	88 DOD normotensive
10820	0:46:44 CT ABDOMEN W IV CONTRAST	9/29/2009 17:10	35 White	М	153	93 DOD normotensive
10824	0:51:44 CT ABDOMEN W IV CONTRAST	10/18/2009 17:53	39 White	М	159	84 DOD normotensive
10825	0:25:19 CT THORAX W IV CONTRAST	10/19/2009 20:15	36 White	М	154	97 DOD normotensive
10883	0:33:26 CT THORAX W IV CONTRAST	7/21/2009 0:57	40 White	М	144	74 DOD normotensive
10886	0:48:39 CT THORAX W IV CONTRAST	7/19/2009 22:09	22 Hispanic	М	145	85 DOD normotensive
10889	0:27:34 CT THORAX W IV CONTRAST	7/24/2009 18:18	46 Black	М	165	78 DOD normotensive
10891	1:23:41 CT THORAX W IV CONTRAST	7/25/2009 6:30	24 Black	М	140	84 DOD normotensive
10894	4:58:07 CT THORAX W IV CONTRAST	12/10/2009 2:45	31 Other	М	147	80 DOD normotensive
10928	0:39:16 CT THORAX W IV CONTRAST	7/28/2009 12:06	31 White	M	197	83 DOD normotensive
10932	1:04:09 CT THORAX W IV CONTRAST	7/31/2009 12:43	30 Black	M	135	79 DOD normotensive
10934	0:36:20 CT THORAX W IV CONTRAST	1/5/2010 23:30	41 Hispanic	M	167	65 DOD normotensive
10937	0:44:36 CT ABDOMEN W IV CONTRAST	2/1/2010 16:29	45 White	M	138	94 DOD normotensive
10940	1:05:02 CT ABDOMEN W IV CONTRAST	2/13/2010 16:20	50 White	M	125	58 DOD normotensive
11126	1:15:13 CT THORAX W IV CONTRAST	3/28/2010 10:20	44 White	M	127	78 DOD normotensive
11120	3:31:53 CT THORAX W IV CONTRAST	1/5/2010 0:00	48 White	F	120	95 DOD normotensive
11317	1:54:40 CT THORAX W IV CONTRAST	11/26/2009 15:42	46 White	М	147	59 DOD normotensive
11317	0:46:30 CT THORAX W IV CONTRAST	11/26/2009 14:33	24 White	M	135	72 DOD normotensive
11319	0:36:36 CT ABDOMEN W IV CONTRAST	11/27/2009 18:19	21 White	M	146	72 DOD normotensive
11313	0:56:33 CT THORAX W IV CONTRAST	10/1/2009 10:45	20 White	F	129	87 DOD normotensive
11323	1:33:00 CT THORAX W IV CONTRAST	2/26/2010 9:59	32 White	M	147	89 DOD normotensive
11324	1:04:46 CT THORAX WO IV CONTRAST	7/4/2010 17:27	49 White	M	124	86 DOD normotensive
11324	1:01:10 CT THORAX W IV CONTRAST	11/24/2009 18:53	24 Black	M	142	98 DOD normotensive
11368	0:30:57 CT THORAX W IV CONTRAST	6/1/2008 13:06	28 White	M	156	85 DOD normotensive
11371	1:20:56 CT THORAX W IV CONTRAST	12/11/2007 3:42	38 Black	M	183	80 DOD normotensive
11371	0:54:29 CT THORAX W IV CONTRAST	9/5/2007 22:08	28 Black	F	156	94 DOD normotensive
11373	4:21:12 CT ABDOMEN W IV CONTRAST	4/17/2010 17:58	22 White	M	164	92 DOD normotensive
11388	0:36:56 CT ABDOMEN W IV CONTRAST	4/18/2010 11:24	35 Asian	F	149	72 DOD normotensive
11402	0:39:47 CT ABDOMEN W IV CONTRAST	4/23/2010 20:42	50 White	М	160	79 DOD normotensive
11440	1:01:33 CT THORAX W IV CONTRAST	5/1/2010 8:26	46 White	M	186	81 DOD normotensive
11524	0:36:35 CT ABDOMEN W IV CONTRAST	9/4/2010 16:58	21 White	M	156	65 DOD normotensive
11569	3:15:11 CT THORAX W IV CONTRAST	5/27/2010 11:49	38 White	F	137	80 DOD normotensive
11576	0:14:11 CT ABDOMEN W IV CONTRAST	6/1/2010 16:13	23 White	М	146	88 DOD normotensive
11577	14:27:18 CT ABDOMEN W IV CONTRAST	6/6/2010 22:24	45 White	F	145	80 DOD normotensive
11580	0:53:42 CT ABDOMEN W IV CONTRAST	6/12/2010 23:15	22 White	M	143	80 DOD normotensive
11602	0:46:07 ABDOMEN	11/28/2004 18:56	22 White	M	158	96 DOD normotensive
11624	1:54:51 CT ABDOMEN WO IV CONTRAST	10/26/2009 18:36	29 White	M	165	83 DOD normotensive
11627	0:43:25 CT ABDOMEN W IV CONTRAST	9/13/2009 0:35	37 White	M	145	68 DOD normotensive
11634	0:33:45 CT THORAX W IV CONTRAST	8/21/2009 13:49	18 White	M	128	75 DOD normotensive
11635	0:50:03 CT THORAX W IV CONTRAST	8/21/2009 14:23	19 White	M	149	77 DOD normotensive
11649	1:08:26 CHEST ABDOMEN PELVIS	9/24/2003 18:21	18 White	M	176	87 DOD normotensive
11652	0:47:01 ABDOMEN	10/12/2002 1:39	20 White	M	138	89 DOD normotensive
11032	C.T.OI ADDOMEN	10/12/2002 1.39	TO ANIUIC	141	130	05 DOD HOHHOLEHSIVE

Study ID Ti	me to Scan Study Description	Study Date/Time	Age Race	Sex	ED BP	ED Pulse Tag
12061	1:06:39 CHEST ABDOMEN PELVIS	3/21/2006 20:36	24 White	М	177	89 DOD normotensive
12064	0:51:11 CT THORAX W IV CONTRAS	3/14/2006 13:07	49 White	F	154	72 DOD normotensive
12070	2:02:04 CHEST ABDOMEN PELVIS	3/7/2006 5:24	41 White	М	175	100 DOD normotensive
12073	1:05:19 CHEST ABDOMEN PELVIS	3/5/2006 8:29	44 White	М	132	93 DOD normotensive
12079	0:55:15 CHEST ABDOMEN PELVIS	2/26/2006 3:34	23 White	М	149	90 DOD normotensive
12415	0:28:18 CT THORAX W IV CONTRAS	3/30/2006 20:28	44 White	М	152	89 DOD normotensive
12418	2:08:25 CT ABDOMEN W IV CONTRAST	2/5/2006 21:30	46 White	М	186	98 DOD normotensive
12434	2:29:10 CHEST ABDOMEN PELVIS	1/1/2006 14:49	23 White	М	149	100 DOD normotensive
12602	0:54:23 CHEST ABDOMEN PELVIS	1/18/2006 18:40	18 White	М	138	100 DOD normotensive
12776	2:33:07 CHEST ABDOMEN PELVIS	1/8/2006 13:59	32 White	М	137	74 DOD normotensive
12799	1:22:41 CHEST ABDOMEN PELVIS	11/26/2005 1:44	39 White	М	143	97 DOD normotensive
13041	0:57:53 CHEST ABDOMEN PELVIS	1/25/2006 19:58		М	126	97 DOD normotensive
13045	1:15:22 CHEST ABDOMEN PELVIS	1/22/2006 8:53	22 White	М	128	97 DOD normotensive
14515	0:51:35 CT THORAX W IV CONTRAST	6/12/2007 1:37	47 Black	М	197	82 DOD normotensive
15426	0:41:26 CT ABDOMEN W IV CONTRAST	4/9/2009 15:11		М	134	65 DOD normotensive
15432	0:41:39 CT THORAX W IV CONTRAST	10/5/2008 2:19	31 White	М	135	88 DOD normotensive
15498	1:21:03 CT THORAX W IV CONTRAST	5/23/2006 10:58	35 White	М	189	78 DOD normotensive
15642	0:49:34 CT ABDOMEN WO IV CONTRAST	11/7/2010 1:12		M	129	87 DOD normotensive
15740	1:04:08 CHEST ABDOMEN PELVIS	6/24/2003 12:56	24 White	M	144	61 DOD normotensive
15755	2:31:44 CHEST	10/10/2004 20:16	46 White	M	141	93 DOD normotensive
15758	1:31:15 CHEST ABDOMEN PELVIS	6/16/2004 12:47		M	157	90 DOD normotensive
16017	1:08:20 CT THORAX W IV CONTRAST	6/30/2009 0:38	27 White	M	147	67 DOD normotensive
16022	1:21:46 CT THORAX W IV CONTRAST	8/8/2009 10:34	40 White	M	141	81 DOD normotensive
16024	0:28:50 CT ABDOMEN W IV CONTRAST	8/9/2009 20:26	46 White	М	153	75 DOD normotensive
16025	0:35:37 CT ABDOMEN W IV CONTRAST	8/15/2009 15:52	28 White	F	124	95 DOD normotensive
16026	1:51:38 CT ABDOMEN W IV CONTRAST	8/16/2009 10:43	30 White	F	128	89 DOD normotensive
16027	0:36:24 CT ABDOMEN W IV CONTRAST	8/18/2009 3:37	24 White	M	155	68 DOD normotensive
16029	0:54:39 CT ABDOMEN W IV CONTRAST	6/20/2010 15:48	49 White	F	138	73 DOD normotensive
16034	0:48:54 CT ABDOMEN W IV CONTRAST	6/2/2010 16:39	19 White	M	160	55 DOD normotensive
16035	0:43:53 CT ABDOMEN W IV CONTRAST	5/8/2010 13:05	27 White	F	165	79 DOD normotensive
16038	0:57:17 CT ABDOMEN W IV CONTRAST	4/29/2010 18:02	19 White	F	141	84 DOD normotensive
16044	0:25:47 CT ABDOMEN W IV CONTRAST	4/19/2010 11:18	25 White	M	122	88 DOD normotensive
16046	0:28:38 CT ABDOMEN W IV CONTRAST	4/15/2010 20:38	29 Black	M	150	79 DOD normotensive
16047	0:48:47 CT ABDOMEN W IV CONTRAST	4/15/2010 13:04		M	158	62 DOD normotensive
16048	1:52:09 CT ABDOMEN W IV CONTRAST	4/15/2010 13:42		M	144	94 DOD normotensive
16049	0:52:11 CT ABDOMEN W IV CONTRAST	4/12/2010 10:52		F	148	97 DOD normotensive
16058	0:33:28 CT ABDOMEN W IV CONTRAST	5/24/2010 12:30		M	135	75 DOD normotensive
16060	0:44:49 CT ABDOMEN W IV CONTRAST	5/15/2010 15:03	32 White	F	137	88 DOD normotensive
16061	0:38:05 CT ABDOMEN W IV CONTRAST	5/14/2010 20:23	24 White	M	129	40 DOD normotensive
16067	2:39:56 CT ABDOMEN W IV CONTRAST	3/6/2010 6:57		M	135	85 DOD normotensive
16068	2:19:00 CT ABDOMEN W IV CONTRAST	2/28/2010 5:39	40 White	F	131	78 DOD normotensive
16069	1:12:24 CT ABDOMEN W IV CONTRAST	2/20/2010 13:02	20 Hispanic	M	134	78 DOD normotensive
16070	10:02:07 CT ABDOMEN W IV CONTRAST	8/15/2009 12:34	29 White	M	144	89 DOD normotensive
16071	0:38:13 CT ABDOMEN W IV CONTRAST	2/24/2010 21:58	50 White	M	180	94 DOD normotensive
16129	1:11:47 CT ABDOMEN W IV CONTRAST	2/19/2010 18:20	48 Black	M	168	68 DOD normotensive
16131	0:59:03 CT ABDOMEN W IV CONTRAST	2/11/2010 0:10	18 White	M	125	85 DOD normotensive
16134	0:30:58 CT ABDOMEN W IV CONTRAST	1/31/2010 15:27	38 White	M	162	88 DOD normotensive
16139	6:16:51 CT ABDOMEN W IV CONTRAST	1/20/2010 15:17	49 White	F	146	84 DOD normotensive
16140	17:55:09 CT ABDOMEN W IV CONTRAST	1/10/2010 20:42	46 White	M	125	79 DOD normotensive
16141	0:57:06 CT ABDOMEN W IV CONTRAST	1/10/2010 1:01		M	178	89 DOD normotensive
16153	3:46:00 CT ABDOMEN W IV CONTRAST	12/31/2009 21:27	23 White	M	163	93 DOD normotensive
16162	0:43:57 CT ABDOMEN W IV CONTRAST	12/26/2009 7:43	18 White	F	134	97 DOD normotensive

Study ID	Time to Scan Study Description	Study Date/Time A	Age Race	Sex	FD BP F	D Pulse Tag
16173	0:40:02 CT ABDOMEN W IV CONTRAST	11/21/2009 0:30	19 Black	F	145	88 DOD normotensive
16174	0:26:42 CT ABDOMEN W IV CONTRAST	11/18/2009 10:23	19 White	М	142	85 DOD normotensive
16341	1:28:47 CHEST ABDOMEN PELVIS	10/17/2002 17:30	36 White	F	121	80 DOD normotensive
16878	0:59:36 CT THORAX W IV CONTRAST	8/26/2006 8:26	23 White	М	148	81 DOD normotensive
16879	1:02:17 CT THORAX W IV CONTRAST	10/29/2006 1:05	44 Black	M	130	98 DOD normotensive
16921	1:25:43 CT ABDOMEN W IV CONTRAST	6/12/2006 10:58	38 White	M	143	82 DOD normotensive
16927	1:12:02 CT THORAX W IV CONTRAST	4/9/2011 18:15	31 White	F	126	89 DOD normotensive
16928	1:04:03 CT ABDOMEN PELVIS W IV CONTRAST	• •	46 White	М	199	86 DOD normotensive
16930	0:33:38 CT THORAX W IV CONTRAST	4/2/2011 20:02 2/5/2011 14:08		M	127	84 DOD normotensive
			31 White			
16931	13:11:22 CT ABDOMEN PELVIS W IV CONTRAST	1/30/2011 0:52	48 White	M	149	68 DOD normotensive
16933	0:40:32 CT THORAX W IV CONTRAST	1/1/2011 21:40	29 White	F	132	56 DOD normotensive
16944	6:21:35 CT ABDOMEN W IV CONTRAST	10/23/2010 1:34	42 White	M	152	93 DOD normotensive
16946	0:27:23 CT ABDOMEN W IV CONTRAST	9/27/2010 1:22	24 White	M	169	83 DOD normotensive
16947	3:15:16 CT THORAX W IV CONTRAST	9/7/2010 23:35	46 White	M	129	88 DOD normotensive
17034	1:09:36 CT THORAX W IV CONTRAST	3/24/2007 6:54	22 White	M	150	89 DOD normotensive
17036	3:16:28 CT ABDOMEN W IV CONTRAST	1/4/2010 23:46	46 White	M	123	83 DOD normotensive
17067	0:41:14 CT ABDOMEN W IV CONTRAST	7/14/2010 13:10	46 Hispanic	F	132	85 DOD normotensive
17077	0:25:09 CT ABDOMEN W IV CONTRAST	2/28/2010 7:52	48 White	M	130	80 DOD normotensive
17438	3:32:59 CT THORAX W IV CONTRAST	7/21/2010 10:15	26 White	M	131	91 DOD normotensive
17445	0:31:11 CT THORAX W IV CONTRAST	8/31/2010 13:44	40 Hispanic	M	136	76 DOD normotensive
17462	1:43:25 CT THORAX W IV CONTRAST	10/29/2006 20:36	47 White	M	131	77 DOD normotensive
17515	2:14:39 CT ABDOMEN W IV CONTRAST	11/8/2005 20:20	48 White	M	141	86 DOD normotensive
17556	0:51:14 CT ABDOMEN W IV CONTRAST	10/22/2005 8:40	20	M	136	91 DOD normotensive
17576	3:44:12 CT ABDOMEN W IV CONTRAST	3/6/2005 8:46	40 White	F	127	93 DOD normotensive
17638	2:07:44 CT ABDOMEN W IV CONTRAST	8/17/2005 22:23	49 White	F	140	100 DOD normotensive
17644	0:51:37 CT ABDOMEN W IV CONTRAST	9/15/2005 1:34	32 White	M	149	80 DOD normotensive
19974	0:44:04 CT ABDOMEN PELVIS W IV CONTRAST	8/9/2011 18:13	33 White	M	125	76 DOD normotensive
20454	0:48:45 CT THORAX W IV CONTRAST	5/1/2011 19:10	49 Amer Indian	F	120	73 DOD normotensive
20455	1:07:19 CT THORAX W IV CONTRAST	5/22/2011 5:59	33 White	M	122	98 DOD normotensive
21328	0:39:52 CT THORAX W IV CONTRAST	7/30/2010 21:58	31 White	M	134	77 DOD normotensive
21329	0:46:07 CT THORAX W IV CONTRAST	7/28/2010 10:33	48 White	F	142	68 DOD normotensive
21331	0:36:59 CT THORAX W IV CONTRAST	7/25/2010 22:34	34 White	M	126	81 DOD normotensive
21332	0:34:32 CT THORAX W IV CONTRAST	7/23/2010 20:37	19 White	F	132	96 DOD normotensive
21333	0:41:03 CT THORAX W IV CONTRAST	7/22/2010 10:45	40 White	F	125	83 DOD normotensive
21334	1:59:00 CT THORAX W IV CONTRAST	7/22/2010 22:18	41 White	М	139	60 DOD normotensive
21336	3:11:37 CT THORAX W IV CONTRAST	7/22/2010 5:59	43 White	M	123	86 DOD normotensive
21340	0:24:15 CT THORAX W IV CONTRAST	7/4/2010 23:08	43 White	F	141	91 DOD normotensive
21341	1:20:30 CT THORAX W IV CONTRAST	7/4/2010 18:50	37 White	F	137	80 DOD normotensive
21344	0:35:12 CT THORAX W IV CONTRAST	7/2/2010 17:49	23 White	М	140	75 DOD normotensive
21502	1:32:35 CT THORAX W IV CONTRAST	4/5/2004 8:17	42 White	F	137	84 DOD normotensive
21510	14:27:18 CT ABDOMEN W IV CONTRAST	6/6/2010 22:24	45 White	F	145	80 DOD normotensive
21534	0:46:03 CT THORAX W IV CONTRAST	4/4/2009 20:36	50 Black	F	204	68 DOD normotensive
21536	0:49:00 CT THORAX W IV CONTRAST	8/21/2008 19:59	47 White	М	150	92 DOD normotensive
21774	0:44:53 CT THORAX W IV CONTRAST	8/14/2010 1:39	26 White	М	176	85 DOD normotensive
21842	3:22:26 CT THORAX W IV CONTRAST	4/10/2004 3:22	18 White	F	140	80 DOD normotensive
21885	0:46:56 CT ABDOMEN W IV CONTRAST	6/30/2010 9:27	20 White	F	127	80 DOD normotensive
21887	11:27:22 CT ABDOMEN W IV CONTRAST	6/29/2010 23:26	26 White	М	135	77 DOD normotensive
21896	1:09:42 CT ABDOMEN W IV CONTRAST	9/19/2009 4:13	22 White	М	144	75 DOD normotensive
21903	0:36:04 CT ABDOMEN W IV CONTRAST	10/14/2009 10:58	45 White	F	133	82 DOD normotensive
21905	1:11:56 CT ABDOMEN W IV CONTRAST	10/23/2009 7:09	32 Black	М	162	98 DOD normotensive
21906	0:54:26 CT ABDOMEN W IV CONTRAST	10/25/2009 3:12	30 White	F	129	88 DOD normotensive
21908	0:36:50 CT ABDOMEN W IV CONTRAST	10/27/2009 14:43	41 White	М	133	76 DOD normotensive

Study ID Tim	e to Scan Study Description	Study Date/Time A	Age Race	Sex	ED BP E	D Pulse Tag
21911	0:35:21 CT ABDOMEN W IV CONTRAST	11/9/2009 4:03	33 White	М	138	98 DOD normotensive
21943	0:41:47 CT ABDOMEN PELVIS W IV CONTRAST	9/11/2011 21:15	49 White	F	155	75 DOD normotensive
22712	0:31:03 CT THORAX W IV CONTRAST	7/24/2010 17:29	19 White	М	138	90 DOD normotensive
22735	0:44:04 CT THORAX W IV CONTRAST	8/6/2010 20:32	35 White	F	127	81 DOD normotensive
22756	0:26:50 CT THORAX W IV CONTRAST	8/17/2010 19:57	40 White	М	129	72 DOD normotensive
23081	0:59:34 CT THORAX W IV CONTRAST	9/26/2011 20:49	20 White	F	137	96 DOD normotensive
23085	2:35:21 CT THORAX W IV CONTRAST	7/28/2005 22:25	30 White	М	127	98 DOD normotensive
23566	9:38:06 CT THORAX WO IV CONTRAST	7/14/2009 18:02	21 White	М	171	97 DOD normotensive
23567	0:48:52 CT ABDOMEN W IV CONTRAST	4/10/2010 23:41	19 White	F	121	88 DOD normotensive
23575	0:30:47 CT THORAX W IV CONTRAST	6/22/2009 20:00	42 White	F	142	68 DOD normotensive
23590	0:39:59 CT THORAX W IV CONTRAST	3/3/2010 19:11	34 White	М	131	98 DOD normotensive
23591	0:43:20 CT ABDOMEN W IV CONTRAST	12/20/2009 2:18	22 White	F	122	84 DOD normotensive
23598	1:01:58 CT THORAX W IV CONTRAST	6/26/2010 21:26	22 White	М	152	83 DOD normotensive
23602	0:53:29 CT ABDOMEN PELVIS W IV CONTRAST	4/23/2011 2:21	21 White	М	134	98 DOD normotensive
23603	0:54:17 CT ABDOMEN PELVIS W IV CONTRAST	4/23/2011 22:20	43 White	F	145	93 DOD normotensive
23607	1:24:52 CT ABDOMEN PELVIS W IV CONTRAST	4/12/2011 17:13	28 Black	М	150	63 DOD normotensive
23608	0:36:05 CT ABDOMEN PELVIS W IV CONTRAST	4/9/2011 2:56	37 White	М	132	89 DOD normotensive
23667	1:00:13 CT ABDOMEN PELVIS W IV CONTRAST	9/25/2011 1:51	40 White	М	144	85 DOD normotensive
23668	0:30:57 CT ABDOMEN PELVIS W IV CONTRAST	9/24/2011 15:04	23 White	F	120	61 DOD normotensive
23684	0:31:03 CT THORAX W IV CONTRAST	9/24/2011 18:03	42 White	F	127	83 DOD normotensive
23692	0:53:12 CT THORAX W IV CONTRAST	9/13/2011 1:46	21 White	М	149	84 DOD normotensive
23693	1:14:45 CT THORAX W IV CONTRAST	9/11/2011 21:46	46 White	М	182	84 DOD normotensive
23696	0:58:22 CT THORAX W IV CONTRAST	9/8/2011 17:45	26 White	М	153	58 DOD normotensive
23700	0:32:20 CT THORAX W IV CONTRAST	9/4/2011 23:26	29 White	М	144	68 DOD normotensive
23702	0:41:38 CT THORAX W IV CONTRAST	9/4/2011 21:21	27 White	М	144	56 DOD normotensive
23703	1:21:23 CT THORAX W IV CONTRAST	9/3/2011 20:37	37 White	М	139	84 DOD normotensive
23711	1:01:35 CT THORAX W IV CONTRAST	8/23/2011 15:28	22 White	M	148	91 DOD normotensive
23713	1:00:44 CT THORAX W IV CONTRAST	8/21/2011 12:15	40 White	М	159	94 DOD normotensive
23717	1:31:57 CT THORAX W IV CONTRAST	8/17/2011 11:21	41 White	М	120	58 DOD normotensive
23718	0:41:24 CT THORAX W IV CONTRAST	8/16/2011 8:38	39 White	М	139	72 DOD normotensive
23724	0:51:37 CT THORAX W IV CONTRAST	8/3/2011 11:40	19 Black	М	203	88 DOD normotensive
23729	0:25:03 CT THORAX W IV CONTRAST	7/27/2011 18:09	35 White	М	140	76 DOD normotensive
23736	0:35:17 CT THORAX W IV CONTRAST	7/20/2011 21:20	34 White	М	125	92 DOD normotensive
23738	0:36:39 CT THORAX W IV CONTRAST	7/18/2011 16:40	21 White	F	131	98 DOD normotensive
23739	1:05:29 CT THORAX W IV CONTRAST	7/17/2011 4:10		М	184	58 DOD normotensive
23781	1:30:01 CT ABDOMEN W IV CONTRAST	9/29/2009 0:19		М	144	86 DOD normotensive
23787	13:40:47 CT ABDOMEN W IV CONTRAST	11/10/2009 8:53	39 White	М	142	83 DOD normotensive
23788	0:31:38 CT ABDOMEN W IV CONTRAST	9/29/2009 16:20	41 White	М	132	86 DOD normotensive
23801	0:33:03 CT ABDOMEN W IV CONTRAST	6/6/2010 6:18	23 White	М	141	87 DOD normotensive
23840	3:25:59 CT ABDOMEN W IV CONTRAST	8/15/2009 15:02	38 White	F	120	84 DOD normotensive
23861	0:42:55 CT THORAX W IV CONTRAST	6/19/2011 5:36	23 White	М	141	88 DOD normotensive
23865	0:34:34 CT THORAX W IV CONTRAST	7/16/2011 20:51	30 White	М	135	57 DOD normotensive
23868	0:31:46 CT THORAX W IV CONTRAST	7/16/2011 15:04	42 White	М	130	64 DOD normotensive
23876	1:49:22 CT THORAX W IV CONTRAST	5/8/2011 23:47	48 White	М	122	100 DOD normotensive
23880	1:35:32 CT THORAX W IV CONTRAST	7/3/2011 21:51	48 White	F	158	80 DOD normotensive
23881	0:49:38 CT THORAX W IV CONTRAST	7/2/2011 6:21	49 White	М	123	95 DOD normotensive
23882	0:56:05 CT THORAX W IV CONTRAST	7/2/2011 4:48	19 Black	М	166	85 DOD normotensive
23883	0:33:13 CT THORAX W IV CONTRAST	7/2/2011 7:29	47 White	М	141	96 DOD normotensive
23884	0:41:10 CT THORAX W IV CONTRAST	6/30/2011 14:02	30 White	М	141	58 DOD normotensive
23885	0:40:56 CT THORAX W IV CONTRAST	6/28/2011 8:55	22 White	М	146	97 DOD normotensive
23898	6:03:48 CT ABDOMEN PELVIS W IV CONTRAST	6/27/2011 1:28	21 Other	М	129	88 DOD normotensive
23900	0:51:29 CT THORAX W IV CONTRAST	6/19/2011 12:05	20 White	М	152	94 DOD normotensive

Study ID	Time to Scan Study Description	Study Date/Time A	Age Race	Sex F	D RP	ED Pulse Tag
23901	0:37:57 CT ABDOMEN PELVIS W IV CONTRAST	6/16/2011 22:17	38 White	M	145	<u> </u>
23920	0:25:09 CT ABDOMEN PELVIS W IV CONTRAST	6/9/2011 10:46	42 White	M	146	
23924	0:33:05 CT ABDOMEN PELVIS W IV CONTRAST	6/7/2011 14:37	18 White	F	141	
23925	0:30:48 CT ABDOMEN PELVIS W IV CONTRAST	6/5/2011 23:27	47 White	М	180	
23928	1:07:52 CT ABDOMEN PELVIS W IV CONTRAST	6/2/2011 23:20	18 White	M	140	
23930	0:28:35 CT ABDOMEN PELVIS W IV CONTRAST	5/26/2011 13:56	22 White	M	160	
23933	0:51:12 CT ABDOMEN PELVIS W IV CONTRAST	5/13/2011 9:56	43 White	M	150	
23934	0:35:26 CT ABDOMEN PELVIS W IV CONTRAST	5/8/2011 20:26	22 White	M	134	
24274	1:08:35 CT ABDOMEN W IV CONTRAST	8/1/2004 20:31	39 White	F	127	
24279	1:05:10 CT ABDOMEN W IV CONTRAST	9/12/2004 1:55	44 White	, F	151	
24293	1:07:05 CT THORAX W IV CONTRAST	10/16/2004 9:14	40 Black	M	162	
24294	2:33:59 CT ABDOMEN W IV CONTRAST	9/15/2004 18:32	49 White	M	133	
24298	1:20:37 CT THORAX W IV CONTRAST	8/7/2004 15:17	26 White	M	137	
24300	0:48:53 CT THORAX W IV CONTRAST	8/20/2004 14:42	46 White	M	146	
24302	0:34:43 CT ABDOMEN W IV CONTRAST	9/4/2004 2:13	21 White	M	136	
24302	4:10:43 CT ABDOMEN W IV CONTRAST	9/18/2004 22:40	29 White	M	150	
24310	1:20:34 CT ABDOMEN W IV CONTRAST	8/8/2004 22:50	45 White	M	143	
24310	5:29:47 CT ABDOMEN W IV CONTRAST	8/7/2004 20:44	42 White	M	138	
24311	4:17:37 CT THORAX W IV CONTRAST	9/7/2004 23:02	42 White	M	136	
24314	0:45:43 CT ABDOMEN W IV CONTRAST	10/11/2004 11:07	42 Wille	M	122	
24315	1:25:22 CT THORAX W IV CONTRAST		24 Black		152	
24310		10/9/2004 3:47		M	148	
	1:07:01 CT ABDOMEN W IV CONTRAST	2/13/2005 7:44	30 Black	M		
24325	0:56:47 CT THORAX W IV CONTRAST	3/16/2005 22:50	35 White	M	146	
24327 24329	0:54:28 CT THORAX W IV CONTRAST	4/17/2005 13:51	46 White	M	131 178	
	1:31:24 CT THORAX W IV CONTRAST	2/19/2005 1:19	24 Other	M		
24330	1:06:56 CT ABDOMEN W IV CONTRAST	8/14/2004 13:34	19 White	F M	126 159	
24333	6:07:15 CT ABDOMEN W IV CONTRAST	8/14/2004 2:29	21 White	F		
24339	0:54:36 CT THORAX W IV CONTRAST 1:26:59 CT THORAX W IV CONTRAST	1/11/2005 10:20	37 30 Black	r M	132 146	
24341 24342	0:53:19 CT ABDOMEN W IV CONTRAST	1/29/2005 22:21	29 White		123	
24342	0:46:07 CT ABDOMEN W IV CONTRAST	3/4/2005 5:20	36 White	M M	145	
24345	1:16:01 CT THORAX W IV CONTRAST	4/19/2005 19:20	37 White	M	132	
24346	2:00:17 CT THORAX W IV CONTRAST	11/6/2004 14:44	19 White	M	144	
24366	0:46:11 CT THORAX W IV CONTRAST	4/11/2005 5:27	43 White	F	122	
	1:48:20 CT THORAX W IV CONTRAST	10/17/2004 14:04	40 White	M	150	
24372		1/23/2005 15:20				
24378	1:40:25 CT THORAX W IV CONTRAST	2/18/2005 20:42 3/25/2005 17:14	47 White 43 White	M	144	
24381 24395	1:23:49 CT ABDOMEN WO IV CONTRAST 2:04:40 CT THORAX W IV CONTRAST	10/22/2004 23:24	33 White	F M	123 130	
24400	1:40:11 CT THORAX W IV CONTRAST	12/24/2004 19:12	32 White		149	
24400	1:05:44 CT ABDOMEN W IV CONTRAST	6/3/2005 4:48	42 White	M M	149	
24428	2:39:07 CT THORAX W IV CONTRAST	7/26/2005 17:22	27 White		182	
24432	1:08:52 CT THORAX W IV CONTRAST	6/19/2005 6:12	20 White	M M	140	
24439	1:13:51 CT ABDOMEN W IV CONTRAST	5/10/2005 11:00	19 White	M	136	
24448	3:02:26 CT ABDOMEN W IV CONTRAST	7/23/2005 3:57	28 White	F	128	
		6/26/2005 11:00				
24450	3:41:58 CT ABDOMEN W IV CONTRAST 6:31:57 CT ABDOMEN W IV CONTRAST	<i>, ,</i>	20 Black	M	150	
24459		7/24/2005 15:31	32 White	M	133	
24460	0:40:02 CT THORAX W IV CONTRAST	7/29/2005 0:17	19 White	M	123	
24462	1:07:30 CT ABDOMEN W IV CONTRAST	6/9/2005 22:14 5/17/2005 0:40	43 White	F M	187	
24464	4:14:51 CT THORAX W IV CONTRAST	5/17/2005 0:40	37 White	M	173	83 DOD normotensive
24465 24466	1:47:24 CT ABDOMEN W IV CONTRAST 1:55:12 CT ABDOMEN W IV CONTRAST	6/13/2005 19:32	19 White 23	M	144	
		6/26/2005 21:21		M	147	
24472	1:38:47 CT ABDOMEN W IV CONTRAST	7/6/2005 22:43	31 White	М	142	62 DOD normotensive

Study ID Ti	me to Scan Study Description	Study Date/Time	Age	Race	Sex	ED BP E	ED Pulse Tag
24473	6:23:33 CT ABDOMEN W IV CONTRAST	7/18/2005 0:01	45	White	М	133	87 DOD normotensive
24476	0:58:45 CT THORAX W IV CONTRAST	7/27/2005 15:27	25	White	М	129	97 DOD normotensive
24483	1:14:56 CT ABDOMEN W IV CONTRAST	7/27/2005 14:11	46	White	F	164	85 DOD normotensive
24484	0:56:45 CT ABDOMEN W IV CONTRAST	7/29/2005 10:20	49	White	F	131	69 DOD normotensive
24485	1:13:06 CT ABDOMEN W IV CONTRAST	4/30/2005 22:53	19	White	F	144	97 DOD normotensive
24488	0:47:40 CT THORAX W IV CONTRAST	5/13/2005 21:04	33	Black	М	154	89 DOD normotensive
24490	1:55:39 CT THORAX W IV CONTRAST	6/10/2005 4:05	20	Black	М	155	86 DOD normotensive
24491	1:20:22 CT THORAX W IV CONTRAST	6/22/2005 9:24	22	White	М	154	83 DOD normotensive
24496	0:43:02 CT THORAX W IV CONTRAST	8/2/2006 8:46			М	121	77 DOD normotensive
24519	1:33:20 CT THORAX W IV CONTRAST	11/17/2006 20:58	44	White	М	141	78 DOD normotensive
24522	1:18:34 CT THORAX W IV CONTRAST	10/3/2006 11:59	38	White	F	143	94 DOD normotensive
24534	3:20:41 CT THORAX W IV CONTRAST	4/27/2008 21:26	20		М	159	97 DOD normotensive
24538	1:18:11 CT THORAX W IV CONTRAST	8/16/2006 8:42			М	146	97 DOD normotensive
24540	1:09:09 CT THORAX W IV CONTRAST	9/27/2006 17:44			М	131	99 DOD normotensive
24543	0:49:49 CT ABDOMEN W IV CONTRAST	10/13/2006 22:39			М	135	74 DOD normotensive
24545	0:56:50 CT THORAX W IV CONTRAST	10/3/2006 19:26			М	152	81 DOD normotensive
24546	10:10:46 CT ABDOMEN W IV CONTRAST	9/4/2006 10:46			М	145	96 DOD normotensive
24547	1:12:56 CT THORAX W IV CONTRAST	10/7/2006 20:53			M	174	97 DOD normotensive
24548	1:21:43 CT ABDOMEN W IV CONTRAST	9/2/2006 3:46			M	154	82 DOD normotensive
24562	1:17:16 CT ABDOMEN W IV CONTRAST	10/15/2006 7:29			M	147	92 DOD normotensive
24564	2:08:25 CT THORAX W IV CONTRAST	8/3/2006 19:30			M	155	90 DOD normotensive
24569	1:23:22 CT THORAX W IV CONTRAST	11/3/2006 13:27	23		M	146	72 DOD normotensive
24576	0:56:08 CT THORAX W IV CONTRAST	8/3/2006 18:04			M	140	82 DOD normotensive
24579	1:23:58 CT THORAX W IV CONTRAST	8/13/2006 16:59			M	169	61 DOD normotensive
24602	1:06:31 CT THORAX W IV CONTRAST	9/9/2006 19:58			M	175	82 DOD normotensive
24608	0:57:32 CT ABDOMEN W IV CONTRAST	10/5/2006 21:36			M	133	78 DOD normotensive
24616	1:44:40 CT THORAX W IV CONTRAST	11/7/2006 10:24			M	183	99 DOD normotensive
24620	1:00:39 CT ABDOMEN W IV CONTRAST	1/6/2007 0:27			M	120	96 DOD normotensive
24622	1:04:39 CT THORAX W IV CONTRAST	3/22/2007 22:49			M	135	88 DOD normotensive
24632	2:33:23 CT THORAX W IV CONTRAST	9/8/2006 15:16			M	141	90 DOD normotensive
24633	1:26:17 CT THORAX W IV CONTRAST	8/21/2006 23:48			M	151	99 DOD normotensive
24635	1:05:34 CT THORAX W IV CONTRAST	8/29/2006 19:13			M	154	76 DOD normotensive
24655	1:10:23 CT THORAX W IV CONTRAST	12/17/2006 4:03			M	138	84 DOD normotensive
24657	0:59:03 CT THORAX W IV CONTRAST	10/6/2007 12:52			F	135	100 DOD normotensive
24861	0:47:47 CT ABDOMEN PELVIS W IV CONTRAST	1/22/2012 4:15			M	149	85 DOD normotensive
29408	0:31:46 CT ABDOMEN PELVIS W IV CONTRAST	4/4/2012 9:41			F	121	61 DOD normotensive
35582	0:38:06 CT THORAX W IV CONTRAST	10/22/2011 17:45		White	· F	138	66 DOD normotensive
35636	1:33:07 CT ABDOMEN W IV CONTRAST	10/8/2006 6:35			· F	132	98 DOD normotensive
35639	0:57:36 CT THORAX W IV CONTRAST	6/10/2006 0:57			М	134	92 DOD normotensive
35648	2:35:41 CT ABDOMEN W IV CONTRAST	5/17/2005 23:25			M	122	86 DOD normotensive
35652	0:54:36 CT THORAX W IV CONTRAST	2/28/2004 18:55			M	138	83 DOD normotensive
40205	1:41:27 CHEST ABDOMEN PELVIS	10/2/2006 9:44			M	123	94 DOD normotensive
41191	0:29:27 CT ABDOMEN PELVIS W IV CONTRAST	5/21/2012 18:05			F	144	85 DOD normotensive
41191							67 DOD normotensive
	0:42:24 CT ABDOMEN PELVIS W IV CONTRAST 5:08:44 CT ABDOMEN PELVIS W IV CONTRAST	4/5/2012 13:18			M	152	
42190		12/5/2011 3:07			M	135	98 DOD normotensive
48034 48078	0:39:07 CT ABDOMEN PELVIS W IV CONTRAST	7/9/2012 2:17 10/13/2011 12:26			M	128	87 DOD normotensive
	3:39:28 CT ABDOMEN PELVIS W IV CONTRAST				M	122	92 DOD normotensive
48812 49395	0:40:31 CT THORAX W IV CONTRAST 0:11:37 CT THORAX W IV CONTRAST	1/6/2012 22:15 10/15/2010 16:33			M	147 125	85 DOD normotensive 91 DOD normotensive
		9/7/2010 18:50			M	125	
49424 49462	0:51:34 CT THORAX W IV CONTRAST 0:58:37 CT THORAX W IV CONTRAST	8/26/2010 23:21			M M	170 159	93 DOD normotensive 96 DOD normotensive
49462 49464	2:24:51 CT THORAX W IV CONTRAST	8/27/2010 23:21			M	140	82 DOD normotensive
+3404	2.24.31 CI IIIONAA W IV CONTRAST	0/2//2010 0.29	33	VVIIILE	IVI	140	oz pop normotensive

Study ID	Time to Scan	Study Description	Study Date/Time	Age	Race	Sex	ED BP EI	D Pulse Tag
49473	2:46:20	CT THORAX W IV CONTRAST	8/9/2005 2:24	21	White	F	145	98 DOD normotensive
49482	7:12:58	CT ABDOMEN W IV CONTRAST	8/2/2005 13:45	30	White	F	159	55 DOD normotensive
49488	0:58:13	CT THORAX W IV CONTRAST	8/13/2005 6:47	22	White	М	133	90 DOD normotensive
49494	1:14:38	CT THORAX W IV CONTRAST	8/16/2005 18:24	49	White	F	135	90 DOD normotensive
49496	1:14:55	CT THORAX W IV CONTRAST	9/10/2005 12:23	43	Asian	F	133	89 DOD normotensive
49504	1:20:49	CT ABDOMEN W IV CONTRAST	8/11/2005 14:49	48	White	М	135	70 DOD normotensive
49508		CT ABDOMEN W IV CONTRAST	8/6/2005 12:10		White	М	150	60 DOD normotensive
49510		CT ABDOMEN W IV CONTRAST	9/1/2005 21:02		White	М	184	78 DOD normotensive
49564		CT ABDOMEN W IV CONTRAST	11/8/2008 19:47		White	М	120	84 DOD normotensive
49621		CT THORAX W IV CONTRAST	9/8/2011 8:43		White	М	123	72 DOD normotensive
49636		CT THORAX W IV CONTRAST	10/22/2005 20:22	33	White	М	153	98 DOD normotensive
49648		CT THORAX W IV CONTRAST	4/10/2011 4:45		Black	М	152	94 DOD normotensive
49656		CT THORAX W IV CONTRAST	2/3/2011 21:57		Hispanic	М	139	97 DOD normotensive
49658		CT ABDOMEN W IV CONTRAST	10/30/2010 3:12		Black	M	145	87 DOD normotensive
49848		CT ABDOMEN PELVIS W IV CONTRAST	6/21/2011 7:05		Other	F	149	87 DOD normotensive
50376		CT ABDOMEN W IV CONTRAST	10/1/2005 10:03		White	F	128	83 DOD normotensive
50378		CT ABDOMEN W IV CONTRAST	9/29/2005 2:30		White	M	158	85 DOD normotensive
50382		CT THORAX W IV CONTRAST	7/31/2005 4:36		White	M	136	97 DOD normotensive
50397		CT THORAX W IV CONTRAST	9/25/2005 19:10		White	M	206	81 DOD normotensive
50406		CT THORAX W IV CONTRAST	7/25/2005 22:50		White	M	142	78 DOD normotensive
50409		CT ABDOMEN W IV CONTRAST	11/8/2008 19:47		White	M	120	84 DOD normotensive
			· ·					87 DOD normotensive
50417		CT THORAX W IV CONTRAST	2/18/2006 13:51		White	M	127	
50419		CT ABDOMEN W IV CONTRAST	7/9/2005 15:02		White	F	155	65 DOD normotensive
50422		CT THORAX W IV CONTRAST	2/1/2009 16:39		White	F	124	100 DOD normotensive
50504		CT ABDOMEN PELVIS W IV CONTRAST	7/18/2012 6:26		White	M	144	60 DOD normotensive
50790		CT THORAX W IV CONTRAST	7/9/2005 22:40		White	F	127	86 DOD normotensive
50809		CT THORAX W IV CONTRAST	5/27/2006 13:35		White	M	121	100 DOD normotensive
50811		CT ABDOMEN W IV CONTRAST	12/17/2005 5:39		White	M	136	97 DOD normotensive
50814		CT ABDOMEN W IV CONTRAST	10/8/2007 12:01		White	M -	128	80 DOD normotensive
50815		CT ABDOMEN W IV CONTRAST	10/1/2005 10:03		White	F	128	83 DOD normotensive
50816		CT ABDOMEN W IV CONTRAST	8/25/2005 11:39		White	M	136	66 DOD normotensive
50817		CT ABDOMEN W IV CONTRAST	5/3/2005 10:27		Hispanic	M	133	96 DOD normotensive
50826		CT ABDOMEN W IV CONTRAST	6/20/2005 3:13		White	M	132	73 DOD normotensive
50827		CT ABDOMEN W IV CONTRAST	6/30/2005 2:35		White	M	137	80 DOD normotensive
50834		CT THORAX W IV CONTRAST	6/21/2007 22:15		White	F	140	69 DOD normotensive
50909		CT THORAX WO IV CONTRAST	11/7/2010 1:12			M	129	87 DOD normotensive
50921		CT THORAX W IV CONTRAST	11/30/2010 19:43		Hispanic	F -	127	96 DOD normotensive
50923		CT THORAX W IV CONTRAST	11/30/2010 19:43		Hispanic	F	127	96 DOD normotensive
51583		CT ABDOMEN PELVIS W IV CONTRAST	7/27/2012 4:27		White	F	127	71 DOD normotensive
51588		CT ABDOMEN W IV CONTRAST	12/23/2005 20:21		White	М	150	82 DOD normotensive
51701		CT THORAX W IV CONTRAST	6/15/2008 15:47		White	F	122	90 DOD normotensive
51743		CT ABDOMEN W IV CONTRAST	11/11/2005 16:08		Hispanic	М	134	66 DOD normotensive
51768		CT ABDOMEN PELVIS W IV CONTRAST	6/4/2011 4:31		White	М	155	84 DOD normotensive
51793		CT ABDOMEN W IV CONTRAST	2/8/2003 22:52		Black	М	140	96 DOD normotensive
		CT OUTSIDE FILM CONSULT ABDOMEN	6/28/2012 17:01		White	М	143	88 DOD normotensive
		CT OUTSIDE FILM CONSULT ABDOMEN AND PELVIS	6/18/2012 21:15		White	М	121	80 DOD normotensive
52660		CT ABDOMEN PELVIS W IV CONTRAST	1/14/2013 8:35		White	М	137	80 DOD normotensive
52666		CT THORAX W IV CONTRAST	10/15/2012 8:40		Black	M	126	85 DOD normotensive
52667		CT THORAX W IV CONTRAST	11/3/2012 9:15		White	M	155	85 DOD normotensive
52684		CT THORAX W IV CONTRAST	7/23/2012 21:57		Black	F	143	92 DOD normotensive
52686		CT THORAX W IV CONTRAST	5/15/2012 23:38		White	M	154	65 DOD normotensive
52936	0:38:25	CT ABDOMEN PELVIS W IV CONTRAST	11/23/2011 9:52	47	White	M	140	85 DOD normotensive

Study ID Tim	e to Scan	Study Description	Study Date/Time	Age	Race	Sex	ED BP ED P	ulse Tag
52937	1:11:42	CT THORAX W IV CONTRAST	10/23/2011 15:29	-	White	М	177	91 DOD normotensive
52945	1:15:03	CT THORAX W IV CONTRAST	12/2/2011 20:34	50	White	F	195	76 DOD normotensive
52949	0:28:57	CT THORAX W IV CONTRAST	3/5/2012 15:51	49	White	М	165	100 DOD normotensive
52952	1:03:36	CT THORAX W IV CONTRAST	12/17/2011 2:40	33	White	М	141	90 DOD normotensive
52957 -16:	:58:58	CT OUTSIDE FILM CONSULT CHEST	12/21/2011 4:23	22	White	М	157	94 DOD normotensive
52963	0:37:30	CT ABDOMEN PELVIS W IV CONTRAST	2/22/2012 7:30	48	White	F	140	78 DOD normotensive
53737		CT ABDOMEN WO IV CONTRAST	3/8/2006 19:17		White	М	209	88 DOD normotensive
53742		CT ABDOMEN W IV CONTRAST	2/6/2006 21:29		Black	М	162	90 DOD normotensive
53743		CT THORAX W IV CONTRAST	2/21/2006 20:18		White	М	131	96 DOD normotensive
53748		CT ABDOMEN W IV CONTRAST	2/11/2006 20:41		White	М	152	68 DOD normotensive
53834		CT THORAX W IV CONTRAST	10/11/2011 6:16		Black	М	152	75 DOD normotensive
53837		CT THORAX W IV CONTRAST	10/23/2011 15:29		White	M	177	91 DOD normotensive
53845		CT THORAX W IV CONTRAST	10/18/2011 10:09		White	M	127	65 DOD normotensive
53846		CT THORAX W IV CONTRAST	10/22/2011 18:27		White	M	128	71 DOD normotensive
53847		CT ABDOMEN PELVIS W IV CONTRAST	10/2/2011 2:52		White	M	159	64 DOD normotensive
53849		CT THORAX W IV CONTRAST	10/6/2011 17:56		White	F	125	78 DOD normotensive
53851		CT THORAX W IV CONTRAST	10/8/2011 17:08		Black	M	145	68 DOD normotensive
53854		CT THORAX W IV CONTRAST	10/2/2011 12:08		White	M	135	99 DOD normotensive
53858		CT ABDOMEN PELVIS W IV CONTRAST	10/23/2011 14:43		White	M	130	96 DOD normotensive
53875 -18		CT OUTSIDE FILM CONSULT CHEST	10/23/2011 14:43		White	M	167	76 DOD normotensive
53879		CT THORAX W IV CONTRAST	10/24/2011 23:07			F	155	94 DOD normotensive
53898		CT ABDOMEN PELVIS W IV CONTRAST			Hispanic	r F	127	78 DOD normotensive
		CT ABDOMEN PELVIS W IV CONTRAST  CT ABDOMEN PELVIS W IV CONTRAST	11/10/2011 23:08 12/13/2011 7:35		White White	М	139	96 DOD normotensive
53910								
53914		CT ABDOMEN PELVIS W IV CONTRAST	12/10/2011 10:06		White	F	143	77 DOD normotensive
53939		CT THORAX W IV CONTRAST	12/18/2011 6:43		White	M	193	78 DOD normotensive
53956		CT ABDOMEN PELVIS W IV CONTRAST	1/13/2012 16:51		White	M	158	75 DOD normotensive
53957		CT ABDOMEN PELVIS W IV CONTRAST	1/13/2012 2:36		White	M	137	98 DOD normotensive
53966		CT ABDOMEN PELVIS W IV CONTRAST	2/4/2012 5:45		Black	F	129	94 DOD normotensive
53969		CT ABDOMEN PELVIS W IV CONTRAST	1/28/2012 12:40		White	M	139	66 DOD normotensive
53974		CT THORAX W IV CONTRACT	2/10/2012 22:20		White	M	171	100 DOD normotensive
53979		CT THORAX W IV CONTRAST	3/5/2012 18:16		White	F	185	88 DOD normotensive
53990		CT ABDOMEN PELVIS W IV CONTRAST	3/3/2012 0:58		White	M	137	77 DOD normotensive
54023		CT ABDOMEN PELVIS W IV CONTRAST	3/30/2012 16:23		White	M	199	98 DOD normotensive
54025		CT THORAX W IV CONTRAST	4/18/2012 19:18		White	M	142	85 DOD normotensive
54028		CT THORAX W IV CONTRAST	4/17/2012 20:55			F	151	88 DOD normotensive
54049		CT THORAX W IV CONTRAST	5/6/2012 20:40			M	152	65 DOD normotensive
54055		CT ABDOMEN PELVIS W IV CONTRAST	7/15/2012 5:24		White	F	148	93 DOD normotensive
54066		CT ABDOMEN PELVIS W IV CONTRAST	7/25/2012 2:05		White	M	124	84 DOD normotensive
54073		CT THORAX W IV CONTRAST	6/30/2012 1:12		White	F	143	80 DOD normotensive
54080		CT ABDOMEN PELVIS W IV CONTRAST	8/1/2012 8:03		White	F	134	76 DOD normotensive
54106		CT THORAX W IV CONTRAST	8/22/2012 0:46		White	M	147	80 DOD normotensive
54111 -03		CT OUTSIDE FILM CONSULT CHEST	8/20/2012 23:38		Black	M	137	88 DOD normotensive
54165		CT THORAX W IV CONTRAST	5/26/2012 19:25		White	M	127	86 DOD normotensive
54166		CT ABDOMEN PELVIS W IV CONTRAST	5/24/2012 21:08		White	F	122	90 DOD normotensive
54170		CT THORAX W IV CONTRAST	5/12/2012 17:45		White	M	141	86 DOD normotensive
54174		CT ABDOMEN PELVIS W IV CONTRAST	5/23/2012 14:45		White	M	133	72 DOD normotensive
54177 -04		CT OUTSIDE FILM CONSULT ABDOMEN	6/13/2012 0:00		Black	M	151	100 DOD normotensive
54186		CT ABDOMEN PELVIS W IV CONTRAST	4/29/2012 21:52		White	F	159	86 DOD normotensive
54189		CT ABDOMEN W IV CONTRAST	8/21/2012 14:45		White	F	126	86 DOD normotensive
54216 -04		CT OUTSIDE FILM CONSULT ABDOMEN AND PELVIS	6/4/2012 21:56		White	M	133	68 DOD normotensive
54217		CT ABDOMEN PELVIS W IV CONTRAST	5/28/2012 8:56		White	F	140	86 DOD normotensive
54218	0:45:16	CT ABDOMEN PELVIS W IV CONTRAST	6/1/2012 17:02	32	Other	M	163	74 DOD normotensive

Study ID	Time to Scan	Study Description	Study Date/Time	Age	Race	Sex	ED BP ED I	Pulse Tag
54308	0:41:26	CT THORAX W IV CONTRAST	9/4/2012 1:32	45	White	М	133	98 DOD normotensive
54311	-03:26:20	CT OUTSIDE FILM CONSULT ABDOMEN AND PELVIS	9/4/2012 0:00	30	White	М	141	68 DOD normotensive
54312	1:23:31	CT THORAX W IV CONTRAST	9/5/2012 19:58	31	White	М	121	82 DOD normotensive
54320	3:06:50	CT THORAX W IV CONTRAST	6/30/2012 22:09	44	White	М	156	95 DOD normotensive
54322	1:27:45	CT THORAX W IV CONTRAST	6/22/2012 20:53	26	White	М	121	85 DOD normotensive
54323	1:51:03	CT ABDOMEN PELVIS W IV CONTRAST	6/16/2012 5:34	25	White	М	154	87 DOD normotensive
54328	0:46:37	CT THORAX W IV CONTRAST	6/30/2012 0:17	21	White	М	128	77 DOD normotensive
54331	19:32:57	CT ABDOMEN PELVIS WO IV CONTRAST	6/24/2012 15:31	36	White	М	147	59 DOD normotensive
54356	0:50:03	CT ABDOMEN PELVIS W IV CONTRAST	9/12/2012 3:35	43	White	F	123	88 DOD normotensive
54365	5:14:35	CT ABDOMEN PELVIS W IV CONTRAST	9/10/2012 19:35	33	White	F	140	75 DOD normotensive
54376	0:46:33	CT THORAX W IV CONTRAST	9/25/2012 23:27	25	White	М	137	93 DOD normotensive
54378	1:39:59	CT ABDOMEN PELVIS W IV CONTRAST	9/22/2012 4:30	28	Black	М	148	99 DOD normotensive
54380	0:35:08	CT THORAX W IV CONTRAST	10/1/2012 19:37	49	White	М	153	97 DOD normotensive
54381		CT THORAX W IV CONTRAST	9/30/2012 20:31		White	М	141	62 DOD normotensive
54393		CT THORAX W IV CONTRAST	10/28/2012 19:53		White	М	178	56 DOD normotensive
54398		CT ABDOMEN PELVIS W IV CONTRAST	10/14/2012 18:12		White	M	157	66 DOD normotensive
54418		CT THORAX W IV CONTRAST	10/22/2012 23:37		Black	М	122	83 DOD normotensive
54420		CT THORAX W IV CONTRAST	10/18/2012 19:14		White	F	142	87 DOD normotensive
54426		CT ABDOMEN PELVIS W IV CONTRAST	10/20/2012 21:26		Other	F	125	82 DOD normotensive
54429		CT ABDOMEN PELVIS W IV CONTRAST	11/4/2012 3:21		White	M	133	90 DOD normotensive
54431		CT THORAX W IV CONTRAST	11/10/2012 14:23		Asian	M	141	73 DOD normotensive
54435		CT ABDOMEN PELVIS W IV CONTRAST	12/22/2012 16:27		Black	M	121	94 DOD normotensive
	-02:59:58	CT OUTSIDE FILM CONSULT CHEST	12/23/2012 10:27		White	M	133	64 DOD normotensive
54438		CT ABDOMEN PELVIS W IV CONTRAST	11/27/2012 14:26		White	F	147	64 DOD normotensive
	-03:04:55	CT OUTSIDE FILM CONSULT ABDOMEN AND PELVIS	12/21/2012 6:23		White	M	157	77 DOD normotensive
54514		CT ABDOMEN PELVIS W IV CONTRAST	11/24/2012 0:28		Unk	M	135	80 DOD normotensive
54519		CT THORAX W IV CONTRAST	11/24/2012 4:39		Black	M	153	100 DOD normotensive
54540		CT ABDOMEN PELVIS W IV CONTRAST	12/18/2012 23:34		White	F	160	98 DOD normotensive
55254		CT POST PROCESSED T SPINE	2/20/2013 18:34		Black	F	125	82 DOD normotensive
55946		CT ABDOMEN W IV CONTRAST	3/21/2005 13:51		White	M	134	75 DOD normotensive
55985		CT THORAX W IV CONTRAST	6/1/2009 19:34		White	F	129	91 DOD normotensive
56354		CT THORAX W IV CONTRAST	9/2/2003 20:57		White	М	150	79 DOD normotensive
56365		CT ABDOMEN W IV CONTRAST	12/20/2003 2:07		Asian	F	131	71 DOD normotensive
57226		CT ABDOMEN W IV CONTRAST	7/8/2004 4:46		Black	M	145	97 DOD normotensive
57875		CT ABDOMEN PELVIS W IV CONTRAST	7/12/2011 3:15			M	137	74 DOD normotensive
57878		CT THORAX W IV CONTRAST	7/12/2011 3:15			M	136	68 DOD normotensive
57879		CT ABDOMEN W IV CONTRAST	9/2/2005 13:42		White	F	163	77 DOD normotensive
57891		CT ABDOMEN W IV CONTRAST	9/11/2005 0:02		White	M	143	95 DOD normotensive
57894		CT ABDOMEN PELVIS W IV CONTRAST	7/2/2011 21:00		White	M	131	59 DOD normotensive
57898		CT THORAX W IV CONTRAST	6/26/2005 18:52		White	M	133	90 DOD normotensive
57899		CT ABDOMEN W IV CONTRAST	8/28/2005 6:33		Black	M	149	86 DOD normotensive
57903		CT ABDOMEN PELVIS W IV CONTRAST	8/15/2011 13:21		White	M	134	93 DOD normotensive
57905		CT ABDOMEN W IV CONTRAST	5/31/2005 18:49		White	F	131	81 DOD normotensive
57906 57909		CT ABDOMEN W IV CONTRAST	9/4/2005 18:03		Black White	M	147	78 DOD normotensive
		CT ABDOMEN DELVIS WAIV CONTRAST	8/30/2005 21:15		White	M	141	92 DOD normotensive
57917 57950		CT ABDOMEN W IV CONTRAST	4/10/2011 3:00 7/11/2010 23:32		White	M	124	64 DOD normotensive
		CT ABDOMEN W IV CONTRAST			White	M	155	70 DOD normotensive
57951 57054		CT ABDOMEN DELVIS WALV CONTRAST	9/25/2005 16:03		White	F M	134	84 DOD normotensive
57954		CT ABDOMEN W IV CONTRAST	1/23/2011 16:19		White	M	145	85 DOD normotensive
57955 57091		CT ABDOMEN W IV CONTRAST	8/21/2010 23:29		White	M	128	76 DOD normotensive
57981		CT THORAY WIN CONTRAST	1/1/2005 17:04		White	F	147	94 DOD normotensive
57985	3.07:21	CT THORAX W IV CONTRAST	12/26/2004 14:30	42	Black	F	149	74 DOD normotensive

Study ID	Time to Scan	Study Description	Study Date/Time	Age	Race	Sex	ED BP ED	Pulse Tag
57986	1:20:53	CT ABDOMEN W IV CONTRAST	6/5/2004 13:49	27	White	М	131	97 DOD normotensive
57987	0:48:16	CT ABDOMEN W IV CONTRAST	5/21/2004 0:46	45	White	М	125	90 DOD normotensive
57992	4:41:57	CT ABDOMEN W IV CONTRAST	1/27/2005 4:43	21	White	М	146	74 DOD normotensive
57995	1:39:37	CT ABDOMEN W IV CONTRAST	7/25/2004 21:20	21	White	М	141	92 DOD normotensive
57996	1:35:55	CT THORAX W IV CONTRAST	3/24/2005 22:54	48	White	М	139	96 DOD normotensive
58006	0:55:13	CT ABDOMEN W IV CONTRAST	9/4/2003 21:44	25	White	М	132	99 DOD normotensive
58007	0:58:31	CT ABDOMEN W IV CONTRAST	2/19/2004 18:17	20	White	М	122	93 DOD normotensive
58011	1:05:42	CT ABDOMEN W IV CONTRAST	11/21/2003 23:25	49	White	М	137	69 DOD normotensive
58015	2:07:43	CT ABDOMEN W IV CONTRAST	9/25/2003 21:52	20	White	F	137	84 DOD normotensive
58024	1:14:44	CT ABDOMEN W IV CONTRAST	11/18/2003 18:22	45	White	М	158	75 DOD normotensive
58027	1:03:33	CT ABDOMEN WO IV CONTRAST	4/5/2004 21:42	24	White	М	155	96 DOD normotensive
58030	1:19:15	CT ABDOMEN W IV CONTRAST	1/11/2004 3:39		White	М	136	97 DOD normotensive
58032	0:54:04	CT THORAX W IV CONTRAST	2/26/2004 16:31	45		М	158	85 DOD normotensive
58034		CT ABDOMEN W IV CONTRAST	10/3/2005 0:12		White	М	140	61 DOD normotensive
58036		CT THORAX W IV CONTRAST	9/29/2005 15:45		White	F	122	95 DOD normotensive
58042		CT ABDOMEN W IV CONTRAST	10/17/2005 15:31		White	F	159	86 DOD normotensive
58043		CT ABDOMEN W IV CONTRAST	10/24/2005 12:22		White	M	138	90 DOD normotensive
58045		CT ABDOMEN W IV CONTRAST	10/22/2005 21:37		Black	F	169	100 DOD normotensive
58055		CT ABDOMEN W IV CONTRAST	7/7/2003 17:47		White	F	137	79 DOD normotensive
58057		CT ABDOMEN W IV CONTRAST	5/27/2003 19:40		White	M	157	68 DOD normotensive
58075		CT ABDOMEN PELVIS W IV CONTRAST	3/20/2011 20:34		Hispanic	M	123	96 DOD normotensive
58101		CT ABDOMEN W IV CONTRAST	4/8/2007 14:52		White	F.	138	70 DOD normotensive
	-06:34:35	CT OUTSIDE FILM CONSULT CHEST	12/29/2006 0:32		Black	F	124	79 DOD normotensive
58111		CT THORAX W IV CONTRAST	11/5/2005 18:12		White	M	145	64 DOD normotensive
	-02:26:31	CT OUTSIDE FILM CONSULT ABDOMEN	3/30/2008 14:03		White	M	136	67 DOD normotensive
58288		CT THORAX W IV CONTRAST	6/14/2008 12:23		White	F.	120	94 DOD normotensive
58294		CT THORAX W IV CONTRAST	10/5/2007 8:08		White	M	151	77 DOD normotensive
59296		CT ABDOMEN PELVIS W IV CONTRAST	4/7/2013 3:42		White	M	140	95 DOD normotensive
59297		CT ABDOMEN PELVIS W IV CONTRAST	4/7/2013 3:06		White	M	128	97 DOD normotensive
59298		CT ABDOMEN PELVIS WO IV CONTRAST	4/7/2013 21:06		White	F	122	96 DOD normotensive
59318		CT ABDOMEN PELVIS W IV CONTRAST	4/12/2013 22:29		White	M	160	89 DOD normotensive
59325		CT ABDOMEN PELVIS W IV CONTRAST	11/15/2012 20:25		White	M	166	84 DOD normotensive
		CT ABDOMEN PELVIS W IV CONTRAST	12/2/2012 2::10		White	M	134	
59330 59331		CT ABDOMEN PELVIS W IV CONTRAST	11/16/2012 14:29		White	F	132	79 DOD normotensive 84 DOD normotensive
		CT ABDOMEN PELVIS W IV CONTRAST	1/17/2013 9:48		White	М	203	82 DOD normotensive
59340 59343		CT ABDOMEN PELVIS W IV CONTRAST	1/17/2013 9.48			M	132	88 DOD normotensive
59356		CT ABDOMEN PELVIS W IV CONTRAST	1/29/2013 7:40				129	
		CT OUTSIDE FILM CONSULT ABDOMEN AND PELVIS			Asian	М		86 DOD normotensive
	-02:05:45		2/10/2013 17:50		White White	F F	126	69 DOD normotensive 98 DOD normotensive
59371	-04:31:53	CT OUTSIDE FILM CONSULT ABDOMEN AND PELVIS CT ABDOMEN PELVIS W IV CONTRAST	2/17/2013 18:01 2/23/2013 22:15		White	М	162 154	82 DOD normotensive
					White			
59375		CT ABDOMEN PELVIS W IV CONTRAST	2/23/2013 1:22			M	153	82 DOD normotensive
59377		CT ABDOMEN PELVIS W IV CONTRAST	2/16/2013 18:07		White	M	147	100 DOD normotensive
59386		CT ABDOMEN PELVIS W IV CONTRAST	3/6/2013 6:30		White	M	168	68 DOD normotensive
59387		CT ABDOMEN PELVIS W IV CONTRAST	3/18/2013 19:05		White	M	191	95 DOD normotensive
59390		CT ABDOMEN PELVIS W IV CONTRAST	2/18/2013 11:28		White	M	125	62 DOD normotensive
	-04:08:18	CT ADDOMEN DELVIS WAY CONTRACT	1/1/2013 1:40		White	M	127	67 DOD normotensive
59484		CT ABBOMEN PELVIS W IV CONTRAST	3/26/2013 20:37		White	M	122	99 DOD normotensive
59488		CT ABBOMEN PELVIS W IV CONTRAST	3/30/2013 0:39		White	M	125	83 DOD normotensive
59489		CT ABDOMEN PELVIS W IV CONTRAST	3/23/2013 12:34		White	F	141	87 DOD normotensive
59743		CT ABDOMEN W IV CONTRAST	12/13/2002 19:11		Hispanic	M	123	67 DOD normotensive
60663		CT ABDOMEN W IV CONTRAST	8/25/2010 18:44		Black	M	158	100 DOD normotensive
60682	0:38:35	CT ABDOMEN W IV CONTRAST	9/22/2010 7:15	45	Black	M	142	92 DOD normotensive

Study ID	Time to Scan Study Description	Study Date/Time	Age	Race	Sex	ED BP	ED Pulse Tag
60688	2:39:49 CT ABDOMEN W IV CONTRAST	9/18/2010 14:57	24	White	F	129	98 DOD normotensive
60914	1:07:42 CT ABDOMEN W IV CONTRAST	1/14/2004 14:25	19	White	М	147	78 DOD normotensive
60915	0:59:52 CT ABDOMEN W IV CONTRAST	9/10/2003 5:14	19	Black	М	149	99 DOD normotensive
60917	2:24:05 CT ABDOMEN W IV CONTRAST	10/12/2003 11:37	20	White	М	159	89 DOD normotensive
60924	1:50:44 CT THORAX W IV CONTRAST	1/26/2004 10:37	19	Hispanic	М	144	85 DOD normotensive
60927	2:33:31 CT THORAX W IV CONTRAST	2/5/2005 20:18	19	White	М	158	61 DOD normotensive
60928	1:04:09 CT ABDOMEN W IV CONTRAST	1/20/2003 11:58		White	М	143	75 DOD normotensive
60929	1:05:59 CT ABDOMEN W IV CONTRAST	2/11/2003 11:35	19	White	М	178	63 DOD normotensive
60931	0:55:12 CT ABDOMEN W IV CONTRAST	7/4/2003 21:33	19	Black	М	144	72 DOD normotensive
60935	1:11:37 CT THORAX W IV CONTRAST	3/21/2004 5:06	19	White	М	140	100 DOD normotensive
60936	0:54:41 CT ABDOMEN W IV CONTRAST	10/26/2003 3:21	18	White	М	145	95 DOD normotensive
60938	0:43:57 CT ABDOMEN W IV CONTRAST	4/29/2004 5:04		White	М	140	83 DOD normotensive
60939	1:28:05 CT ABDOMEN W IV CONTRAST	8/4/2005 23:14		Hispanic	F	141	96 DOD normotensive
60940	3:33:01 CT ABDOMEN WO IV CONTRAST	5/11/2004 17:37		White	М	125	54 DOD normotensive
60944	1:06:58 CT ABDOMEN W IV CONTRAST	3/15/2005 21:28		White	М	145	84 DOD normotensive
60946	1:27:27 CT ABDOMEN W IV CONTRAST	7/10/2005 21:47		White	М	144	57 DOD normotensive
60947	1:33:28 CT THORAX W IV CONTRAST	7/22/2005 18:55		White	М	150	94 DOD normotensive
60948	3:09:59 CT ABDOMEN W IV CONTRAST	9/11/2005 2:09		White	M	125	81 DOD normotensive
60950	2:13:16 CT THORAX W IV CONTRAST	11/3/2005 8:03		White	M	158	77 DOD normotensive
	-01:43:10 CT OUTSIDE FILM CONSULT ABDOMEN AND PELVIS	2/19/2011 4:03		White	М	126	94 DOD normotensive
66249	0:44:53 CT ABDOMEN W IV CONTRAST	8/14/2010 1:39		White	M	176	85 DOD normotensive
66703	0:52:11 CT ABDOMEN W IV CONTRAST	4/12/2010 10:52		Black	F.	148	97 DOD normotensive
68795	0:49:34 CT THORAX W IV CONTRAST	9/9/2009 2:54		White	M	181	66 DOD normotensive
68796	0:35:48 CT THORAX W IV CONTRAST	3/20/2008 15:26		White	M	133	84 DOD normotensive
68797	0:38:21 CT THORAX W IV CONTRAST	9/22/2008 9:26		White	M	149	100 DOD normotensive
68799	2:05:16 CT THORAX W IV CONTRAST	12/31/2007 14:32		White	M	186	68 DOD normotensive
68800	14:27:18 CT THORAX W IV CONTRAST	6/6/2010 22:24		White	F	145	80 DOD normotensive
68802	0:28:11 CT THORAX W IV CONTRAST	12/14/2010 11:21		White	M	159	95 DOD normotensive
68803	0:38:50 CT THORAX W IV CONTRAST	11/1/2010 11:21		White	M	143	96 DOD normotensive
68804	0:30:44 CT THORAX W IV CONTRAST	10/2/2010 14:11		White	M	144	84 DOD normotensive
68806	1:18:57 CT THORAX W IV CONTRAST	4/15/2012 18:16		White	M	159	86 DOD normotensive
68807	0:45:29 CT THORAX W IV CONTRAST	2/4/2012 5:45		Black	F	129	94 DOD normotensive
68808	5:07:02 CT THORAX W IV CONTRAST	12/5/2011 3:06		White	M	135	98 DOD normotensive
68812	12:30:17 CT ANGIO CHEST WO AND W CONTRAST	8/1/2012 8:03		White	F	134	76 DOD normotensive
68816	0:56:24 CT THORAX W IV CONTRAST	11/16/2012 14:29		White	' F	132	84 DOD normotensive
68817	0:56:24 CT THORAX W IV CONTRAST	1/17/2013 9:48			M	203	82 DOD normotensive
71347	1:04:58 CT THORAX W IV CONTRAST	3/13/2013 19:31		White	M	173	56 DOD normotensive
71930	1:26:33 CT ABDOMEN W IV CONTRAST	6/14/2006 15:45		White	M	131	60 DOD normotensive
71931	0:58:06 CT ABDOMEN W IV CONTRAST	7/29/2006 3:49		White	M	159	90 DOD normotensive
71932	0:39:23 CT THORAX W IV CONTRAST	7/25/2006 20:40		White	M	145	88 DOD normotensive
71933	1:18:51 CT THORAX W IV CONTRAST	8/12/2006 18:03		White	F	131	65 DOD normotensive
71934	3:30:10 CT THORAX W IV CONTRAST	6/10/2006 15:44		White	M	146	50 DOD normotensive
71935	1:13:00 CT ABDOMEN W IV CONTRAST	7/17/2006 19:16		White	M	164	86 DOD normotensive
71936	1:22:49 CT ABDOMEN WO IV CONTRAST	10/10/2006 3:09		White	M	157	96 DOD normotensive
71930	1:38:54 CT THORAX W IV CONTRAST	7/1/2006 0:27		White	M	133	72 DOD normotensive
71938	2:46:15 CT ANGIO CHEST WO AND W CONTRAST	10/22/2010 21:40		White	F	147	74 DOD normotensive
71939	6:09:49 CT THORAX W IV CONTRAST	8/6/2006 21:58		White	M	125	70 DOD normotensive
71939	1:29:22 CT THORAX W IV CONTRAST	9/22/2005 6:24		White	M	197	95 DOD normotensive
71940	1:01:10 CT ABDOMEN W IV CONTRAST	7/20/2006 12:09		White	M	144	72 DOD normotensive
71941	1:04:45 CT ABDOMEN W IV CONTRAST	9/19/2005 22:10		Hispanic	M	125	64 DOD normotensive
71942	1:04:45 CT ABDOMEN W IV CONTRAST  1:43:10 CT THORAX W IV CONTRAST	6/18/2006 17:07		White	M	154	74 DOD normotensive
71943	1:20:12 CT THORAX W IV CONTRAST	7/17/2005 3:04		White	F	123	92 DOD normotensive
7 1545	T.ZU.TZ CI IIIONAA W IV CONTNASI	1/11/2003 3.04	42	AAIIICE		123	22 DOD HOHHOLEHSIVE

Study ID Time to Scan Study Description	Study Date/Time A	Age Race	Sex	ED BP E	D Pulse Tag
71946 1:40:33 CT THORAX W IV CONTRAST	10/1/2005 13:25	46 White	М	165	74 DOD normotensive
71947 0:45:47 CT THORAX WO IV CONTRAST	9/23/2005 6:27	30 Black	F	164	93 DOD normotensive
71948 0:52:53 CT THORAX W IV CONTRAST	10/29/2005 4:48	26 Black	M	193	86 DOD normotensive
71949 0:51:39 CT ABDOMEN W IV CONTRAST	9/14/2005 14:25	29 White	М	154	90 DOD normotensive
71950 -03:19:32 CT OUTSIDE FILM CONSULT CHEST	8/24/2007 22:05	18 Other	М	147	54 DOD normotensive
71951 -01:59:22 CT OUTSIDE FILM CONSULT ABDOMEN	11/27/2010 23:02	21 White	F	143	89 DOD normotensive
71952 1:17:44 CT THORAX W IV CONTRAST	8/3/2006 18:41	30 White	M	152	67 DOD normotensive
71953 -03:59:14 CT OUTSIDE FILM CONSULT CHEST	12/17/2009 20:39	50 White	M	151	87 DOD normotensive
71954 1:04:02 CT THORAX W IV CONTRAST	10/29/2011 0:54	21 Black	M	129	85 DOD normotensive
71955 1:01:15 CT ABDOMEN W IV CONTRAST	10/3/2005 1:07	47 Black	F	180	86 DOD normotensive
71956 1:59:27 CT THORAX W IV CONTRAST	7/20/2006 13:07	33 White	' F	131	80 DOD normotensive
71957 0:47:07 CT THORAX W IV CONTRAST	7/11/2005 6:34	22 White	М	152	68 DOD normotensive
71958 0:49:53 CT THORAX W IV CONTRAST	5/10/2007 8:26	47 Other	M	152	87 DOD normotensive
71958 U:49:53 CT FIORAX W IV CONTRAST 71959 -01:50:50 CT OUTSIDE FILM CONSULT ABDOMEN	• •	19 White	M	152	98 DOD normotensive
	6/26/2008 2:11 10/10/2005 7:58	42 White			
71960 1:13:22 CT ABDOMEN W IV CONTRAST	• •		M	159	99 DOD normotensive
71961 1:06:45 CT ABDOMEN W IV CONTRAST	12/17/2005 12:01	47 White	F	161	70 DOD normotensive
71962 1:36:16 CT ABDOMEN W IV CONTRAST	10/9/2005 0:52	22 White	M	139	84 DOD normotensive
71963 0:48:07 CT ABDOMEN W IV CONTRAST	11/8/2006 21:43	20 White	M	165	91 DOD normotensive
71964 0:58:25 CT THORAX W IV CONTRAST	6/10/2006 18:59	25 White	M -	169	81 DOD normotensive
71965 8:39:23 CT ABDOMEN W IV CONTRAST	7/8/2006 21:10	25 White	F	121	66 DOD normotensive
71966 -04:54:32 CT OUTSIDE FILM CONSULT ABDOMEN	3/10/2010 21:44	22 Black	М	159	64 DOD normotensive
71967 1:57:30 CT ABDOMEN W IV CONTRAST	4/30/2005 23:56	21 White	М	144	82 DOD normotensive
71968 0:56:09 CT THORAX W IV CONTRAST	9/4/2010 19:35	21 Black	М	122	74 DOD normotensive
71969 8:30:48 CT ABDOMEN W IV CONTRAST	6/7/2005 15:53	49 Black	М	153	80 DOD normotensive
71970 -05:03:08 CT OUTSIDE FILM CONSULT CHEST	2/21/2009 15:49	42 White	М	141	98 DOD normotensive
71971 0:54:35 CT THORAX W IV CONTRAST	8/25/2005 18:51	43 White	М	142	83 DOD normotensive
71972 4:21:20 CT ABDOMEN W IV CONTRAST	9/21/2005 23:19	29 White	М	161	78 DOD normotensive
71973 5:59:31 CT THORAX W IV CONTRAST	8/25/2005 2:35	48 White	F	140	86 DOD normotensive
71974 0:46:00 CT ABDOMEN W IV CONTRAST	10/30/2005 17:33	38 White	М	153	90 DOD normotensive
71975 2:24:31 CT ABDOMEN W IV CONTRAST	6/19/2006 21:17	20 White	М	182	88 DOD normotensive
71976 0:41:57 CT ABDOMEN W IV CONTRAST	11/3/2005 13:31	21 White	М	159	74 DOD normotensive
71977 -01:09:08 CT OUTSIDE FILM CONSULT ABDOMEN	5/23/2008 0:02	18 White	М	127	58 DOD normotensive
71978 0:48:54 CT ABDOMEN W IV CONTRAST	8/1/2005 19:35	45 White	М	164	66 DOD normotensive
71979 8:31:18 CT ABDOMEN W IV CONTRAST	5/6/2005 10:11	27 White	F	137	82 DOD normotensive
71980 -03:11:28 CT OUTSIDE FILM CONSULT ABDOMEN	9/6/2005 23:00	25 White	М	153	74 DOD normotensive
72572 0:49:40 CT THORAX W IV CONTRAST	9/1/2011 15:27	33 White	М	142	91 DOD normotensive
72573 -02:52:43 CT OUTSIDE FILM CONSULT CHEST	7/5/2010 2:27	26 White	М	149	98 DOD normotensive
72574 -01:43:25 CT OUTSIDE FILM CONSULT ABDOMEN AND PELVIS	S 6/24/2011 23:50	49 White	М	131	96 DOD normotensive
72575 -04:29:13 CT OUTSIDE FILM CONSULT ABDOMEN	12/18/2010 23:49	42 Other	М	122	79 DOD normotensive
72576 1:51:28 CT ABDOMEN W IV CONTRAST	10/21/2006 11:06	47 White	М	134	62 DOD normotensive
72577 -03:24:32 CT OUTSIDE FILM CONSULT ABDOMEN	12/2/2010 21:04	35 Hispanic	М	153	70 DOD normotensive
72578 -02:56:32 CT OUTSIDE FILM CONSULT CHEST	1/7/2011 16:32	25 White	М	175	79 DOD normotensive
72579 1:49:07 CT ABDOMEN W IV CONTRAST	7/22/2006 19:36	45 White	М	136	99 DOD normotensive
72580 1:58:02 CT ABDOMEN W IV CONTRAST	7/11/2004 5:03	47	М	137	94 DOD normotensive
72581 2:38:30 CT ABDOMEN W IV CONTRAST	7/24/2004 9:02	23 White	F	125	85 DOD normotensive
72582 11:09:04 CT ABDOMEN W IV CONTRAST	11/1/2009 11:27	19 White	М	148	89 DOD normotensive
72583 1:25:39 CT ABDOMEN W IV CONTRAST	7/29/2006 21:10	31 White	М	142	95 DOD normotensive
72584 0:35:59 CT ABDOMEN PELVIS W IV CONTRAST	9/30/2012 21:27	34 White	M	145	96 DOD normotensive
72585 -02:59:46 CT OUTSIDE FILM CONSULT ABDOMEN	8/30/2007 22:08	50 White	М	164	97 DOD normotensive
72586 -02:07:21 CT OUTSIDE FILM CONSULT ABDOMEN	8/6/2007 13:30	47 Black	F	159	64 DOD normotensive
72587 0:56:16 CT ABDOMEN W IV CONTRAST	7/29/2006 19:46	46 Black	M	137	90 DOD normotensive
72588 -04:30:42 CT OUTSIDE FILM CONSULT CHEST	10/7/2010 15:35	46 White	М	156	95 DOD normotensive

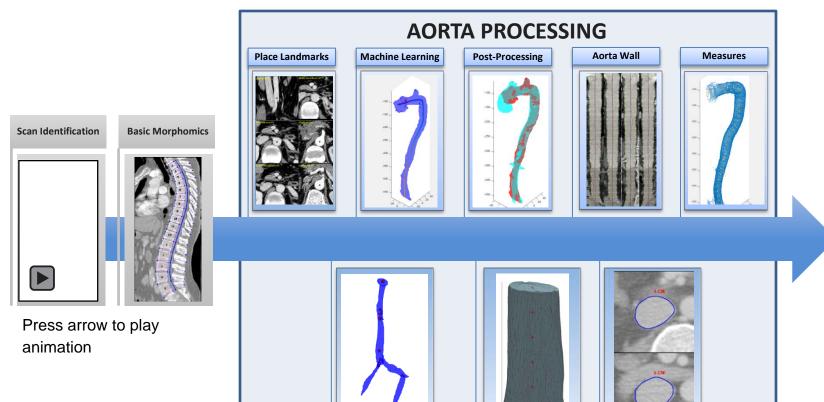
#### Appendix A Civilian Patient List

St	udy ID Time	e to Scan	Study Description	Study Date/Time	Age	Race	Sex I	D BP ED Pu	lse Tag
	72589	6:55:41	CT ABDOMEN W IV CONTRAST	10/14/2005 0:58	23	Black	М	182	80 DOD normotensive
	72590	1:21:43	CT ABDOMEN W IV CONTRAST	7/11/2004 4:26	22	White	М	137	96 DOD normotensive
	72591	1:04:19	CT ABDOMEN PELVIS W IV CONTRAST	4/19/2012 3:13	24	Asian	М	120	96 DOD normotensive
	72592	1:43:27	CT ABDOMEN W IV CONTRAST	2/7/2005 7:12	27	Black	М	148	83 DOD normotensive
	72593	3:11:40	CT ABDOMEN W IV CONTRAST	1/6/2005 20:43	38	White	М	153	83 DOD normotensive
	72594 -04:0	01:47	CT OUTSIDE FILM CONSULT CHEST	5/18/2006 17:05	28	White	М	142	92 DOD normotensive
	72595 -02:2	19:46	CT OUTSIDE FILM CONSULT CHEST	10/29/2008 17:04	18	Black	М	153	95 DOD normotensive
	72596	0:47:16	CT ABDOMEN W IV CONTRAST	8/29/2004 6:59	24	White	М	140	77 DOD normotensive
	72597	0:43:14	CT ABDOMEN W IV CONTRAST	8/27/2004 3:24	34	Black	М	126	79 DOD normotensive
	72598	0:45:49	CT ABDOMEN W IV CONTRAST	7/22/2004 6:54	24	White	М	133	80 DOD normotensive
	72599	0:55:58	CT ABDOMEN W IV CONTRAST	8/24/2004 20:29	46	White	М	158	79 DOD normotensive
	72600	1:21:40	CT ABDOMEN W IV CONTRAST	10/6/2004 6:02	26	White	М	148	93 DOD normotensive
	72601	1:05:11	CT ABDOMEN W IV CONTRAST	9/10/2004 15:58	28	White	М	138	98 DOD normotensive
	72602	15:17:39	CT ABDOMEN W IV CONTRAST	6/17/2006 17:49	33	White	М	125	49 DOD normotensive
	72603	1:46:26	CT ABDOMEN W IV CONTRAST	9/18/2006 10:20	29	Hispanic	М	163	95 DOD normotensive
	72604 -01:2	24:19	CT OUTSIDE FILM CONSULT CHEST	3/21/2006 13:05	48	White	М	155	70 DOD normotensive

#### APPENDIX B

Vascular Processing Videos

# **Vascular Processing Methodology**



Landmarks &

**User-aided Segmentation** 

5cm Volume with

Centerline

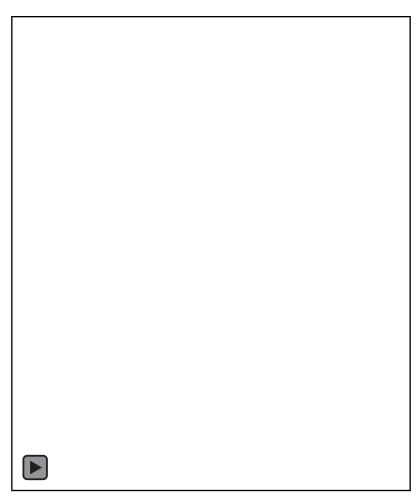
**VENA CAVA PROCESSING** 

Measures



Merged for Analysis

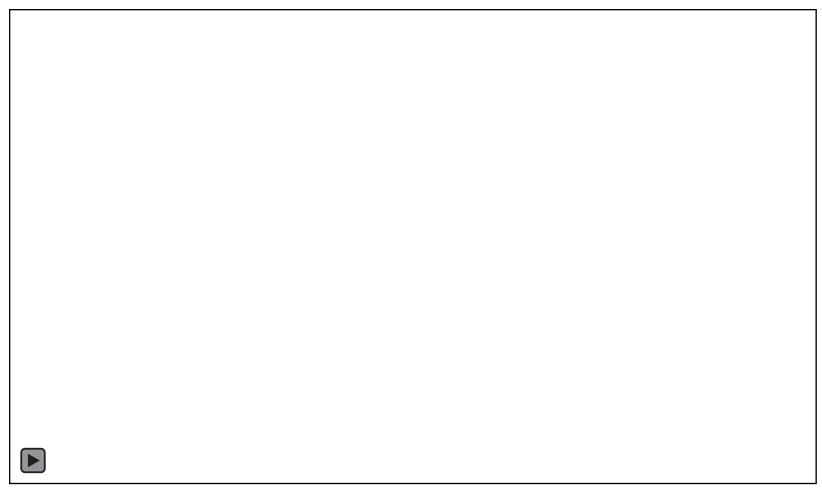
# **Aorta Centerline**



Press arrow to play animation



# Segmented Aorta and Vena Cava in situ



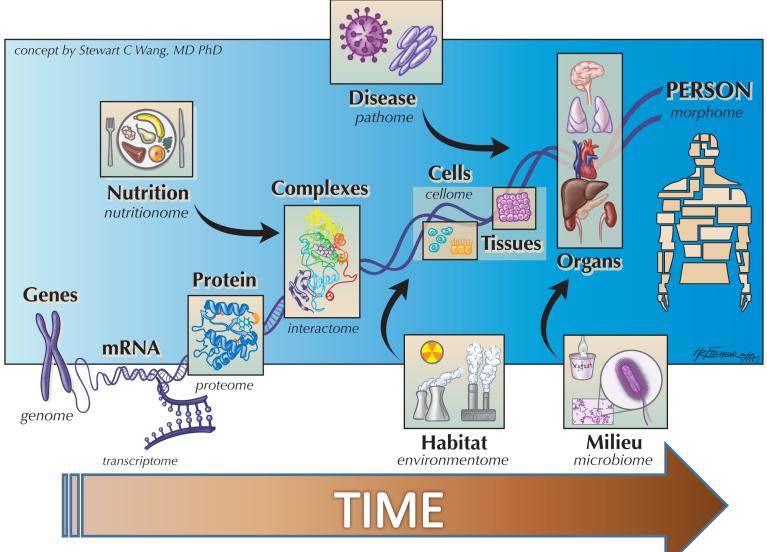
Press arrow to play animation



#### **APPENDIX C**

Morphomics Overview

## **Morphomics = Personalized Medicine**



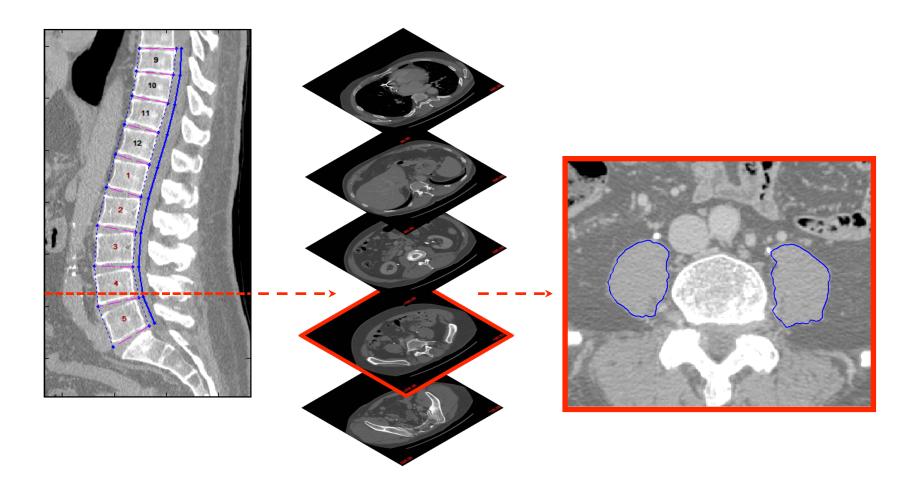


# **Morphomics = Personalized Medicine**

- Multiplex tool for patient diagnosis and stratification.
- Morphomics is based on highly-automated, high-throughput image processing to quantify millions of anatomically-indexed measures from a single patient's scan, offering remarkable opportunities for personalized treatment and surgical planning.
- Imaging data has been preserved in pristine condition (BUT NOT USED)
  while patients' response to treatment has been observed. .. Natural
  experiments
- Each patient's individual morphometric qualities are then assessed against population-based standards to identify patient-specific risk factors
- Morphomic assessment of trunk musculature (density and mass), body composition (fat distribution), vascular calcification, and solid organ morphomic measures have demonstrated that these patient-specific variables dominate risk prediction models and provide critical insight into patient risk. Thousands of other potential biomarkers are being tested.

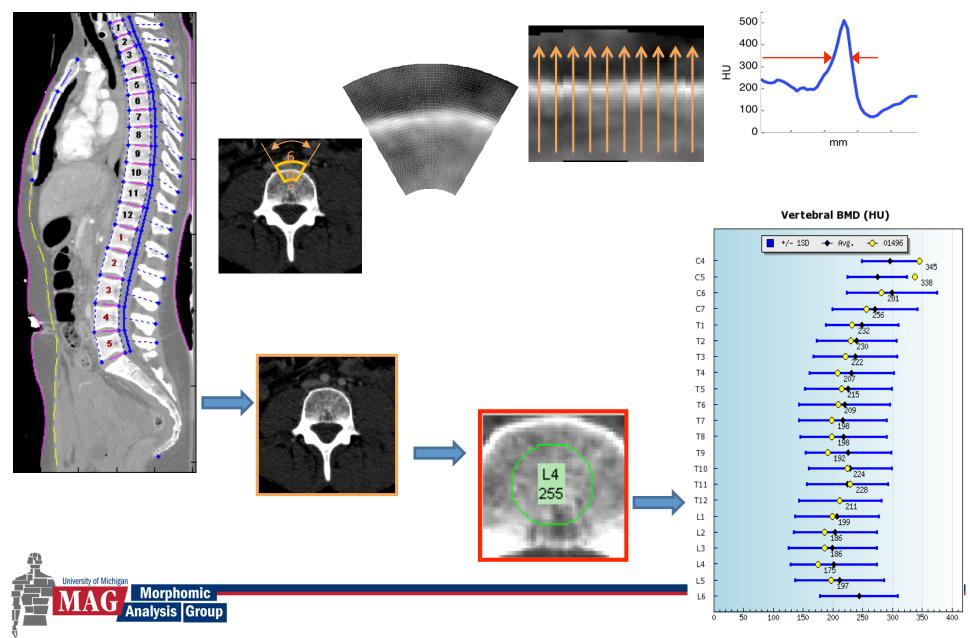


# **Muscle Health/Sarcopenia**

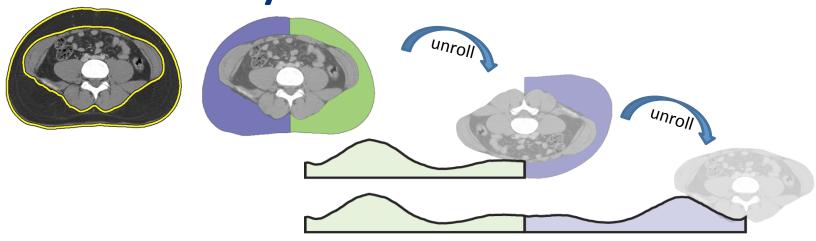


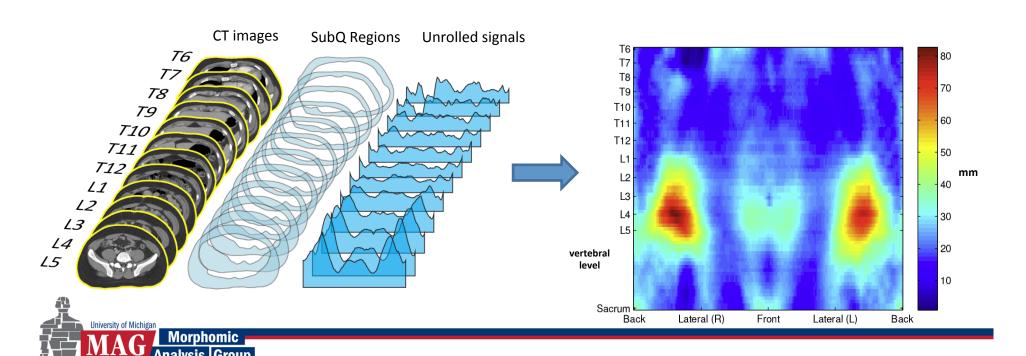


### **Bone Health**



## **Obesity – Fat Characterization**





### APPENDIX D

Initial Data Analysis

## **Data Presentation**



# **Aorta Radius Population**

	Normotensive	Hypotensive	ECG
# CT Scans (Aorta processed)	959	63	46
Female	24%	40%	24%
Male	76%	57%	76%
Mean Age	33.1	34.1	32.2
Std. Dev. Age	10.0	10.6	10.2
Min Age	18	18	18
Max Age	50	50	50
Mean Height (m)	1.7	1.7	1.7
Mean Weight (kg)	83.8	85.3	76.8

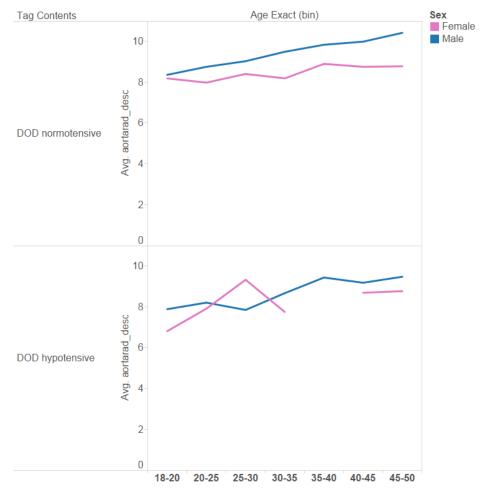


# **CROSS-GENDER COMPARISONS**



# **Avg. Descending Aorta Radius**

by Sex, Age, Hemodynamic Status

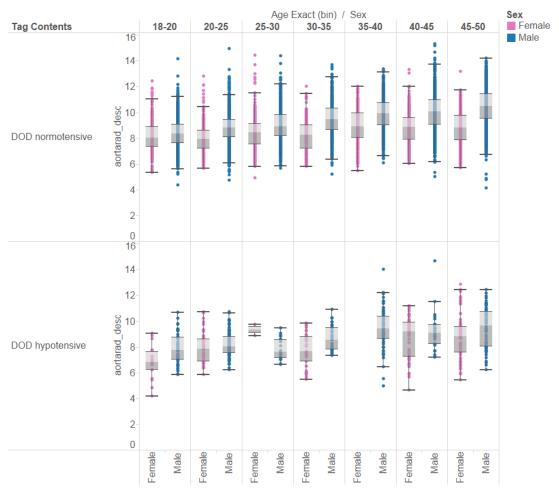






# **Descending Aorta Radius**

by Sex, Age, Hemodynamic Status

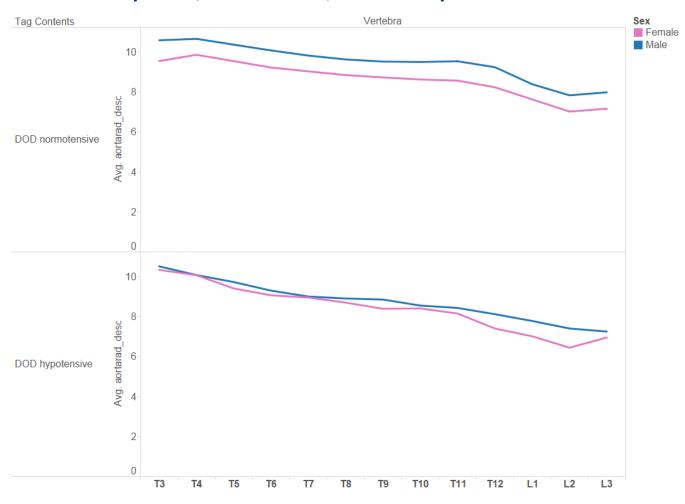






# **Avg. Descending Aorta Radius**

by Sex, Vertebra, Hemodynamic Status

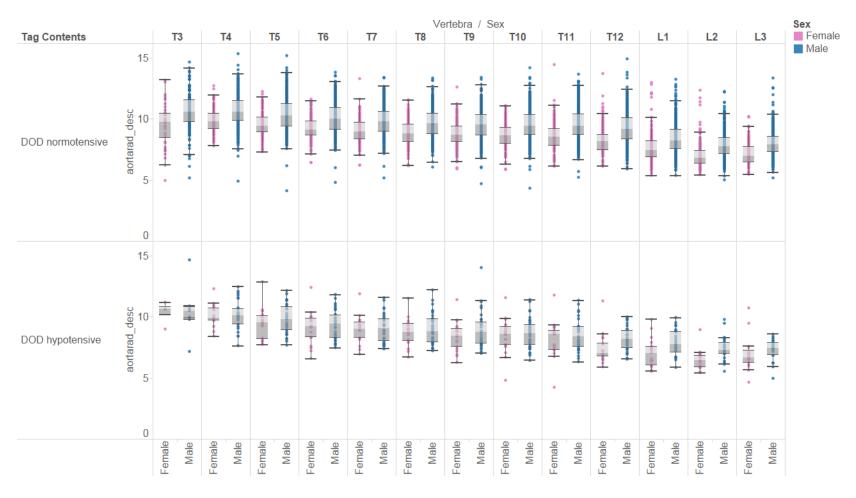






# **Descending Aorta Radius**

by Sex, Vertebra, Hemodynamic Status





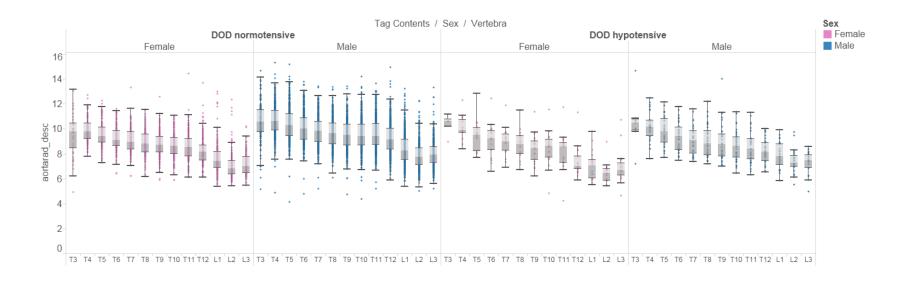


# WITHIN-GENDER COMPARISONS



# **Descending Aorta Radius**

by Hemodynamic Status, Vertebra, Sex







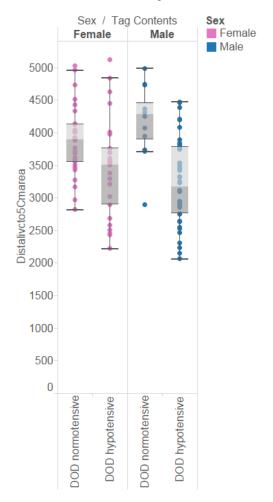
# **Vena Cava Population**

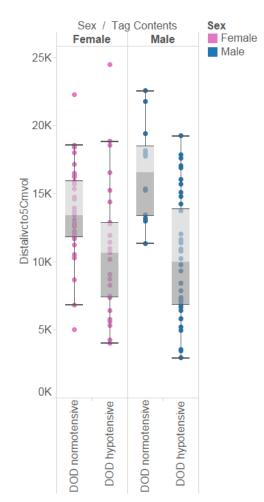
	Normotensive	Hypotensive	ECG
# CT Scans (Vena Cava processed)	49	63	2
Female	76%	38%	50%
Male	24%	62%	50%
Mean Age	32.0	33.6	20.9
Std. Dev. Age	10.7	10.6	0.3
Min Age	18	18	21
Max Age	50	50	21
Mean Height (m)	1.7	1.8	1.8
Mean Weight (kg)	72.0	88.8	69.0



## Vena Cava Area, Volume

by Hemodynamic Status, Sex



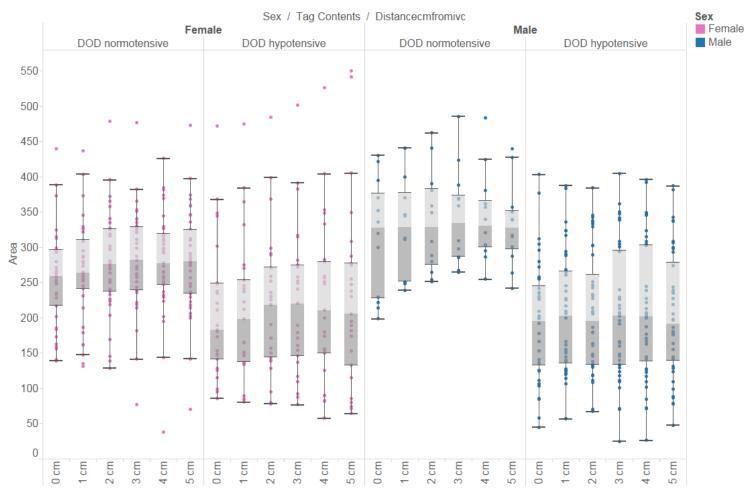






#### Vena Cava Area

#### by Sex, Hemodynamic Status

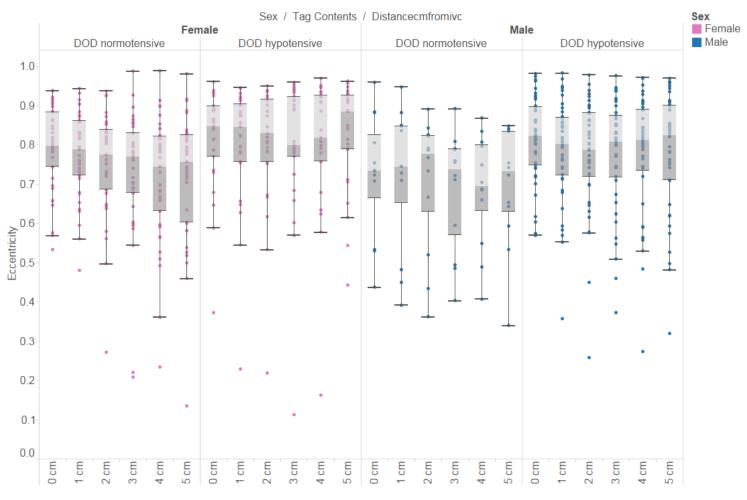






## **Vena Cava Eccentricity**

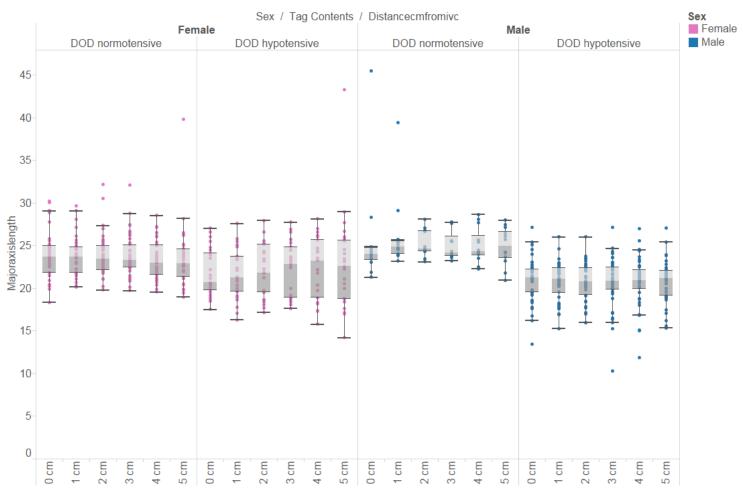
by Sex, Hemodynamic Status







# Vena Cava Major Axis Length by Sex, Hemodynamic Status

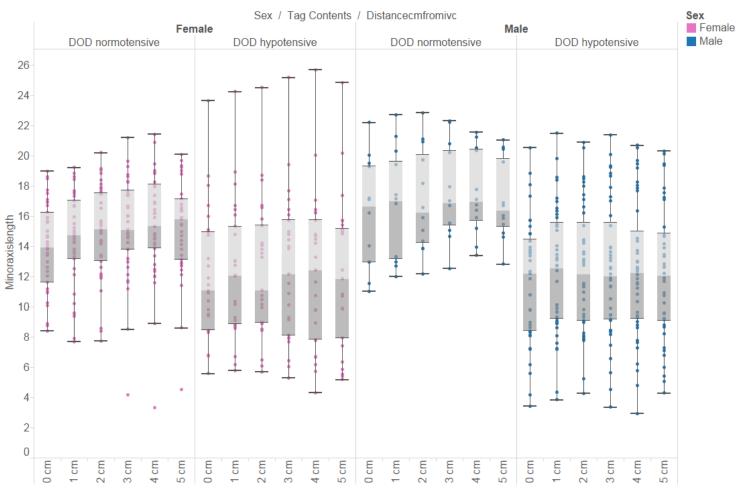






## Vena Cava Minor Axis Length

by Sex, Hemodynamic Status

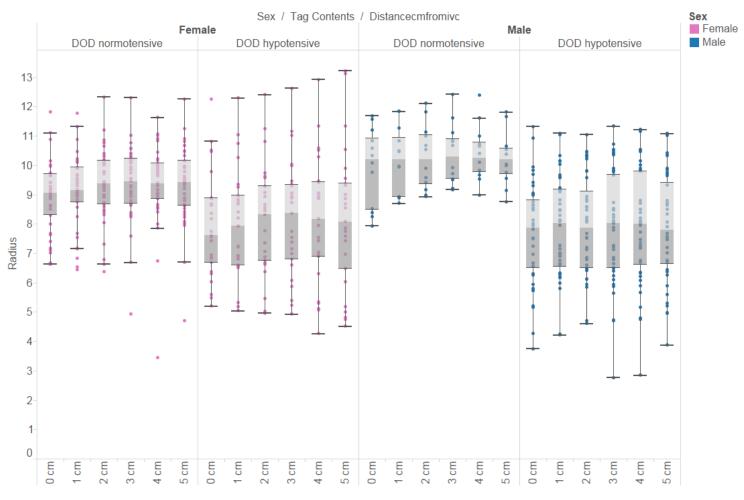






#### **Vena Cava Radius**

by Sex, Hemodynamic Status







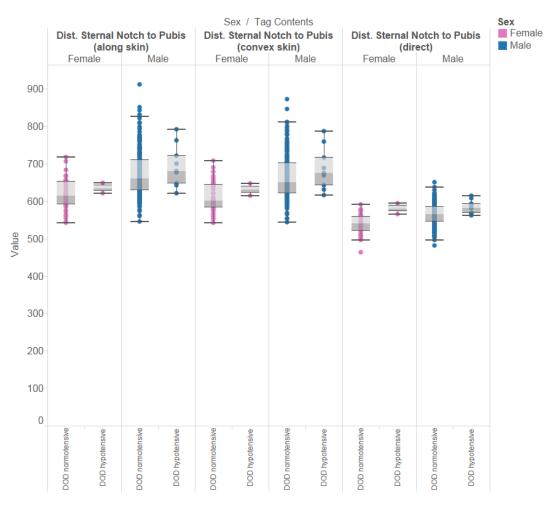
# **Aorta Landmarks Population**

	Normotensive	Hypotensive	ECG
# CT Scans (Aorta landmarks processed)	280	14	22
Female	20%	14%	27%
Male	80%	86%	73%
Mean Age	33.0	32.5	33.4
Std. Dev. Age	10.3	10.3	10.9
Min Age	18	18	18
Max Age	50	49	50
Mean Height (m)	1.8	1.8	1.7
Mean Weight (kg)	85.4	91.5	76.7



#### **Sternal Notch to Pubis Distances**

by Sex, Hemodynamic Status

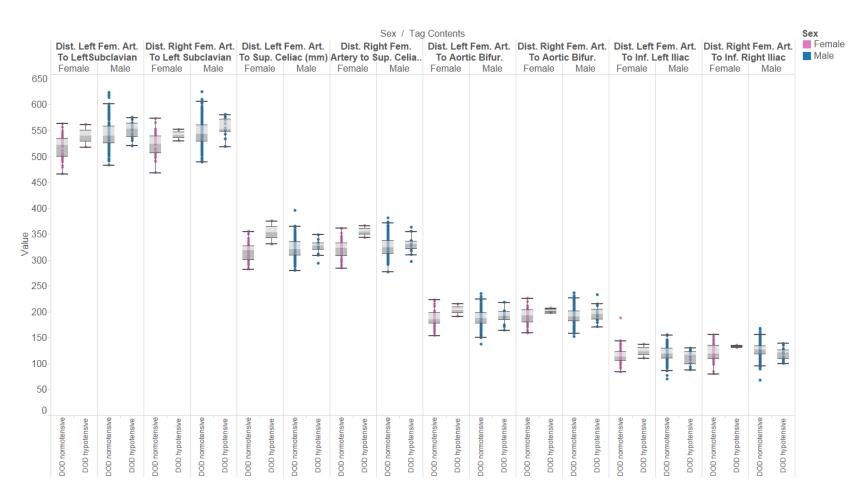


Distance (mm) from sternal notch to pubis measured as: Skin Convex Hull, Along Skin, Direct



# **Vasculature Lengths**

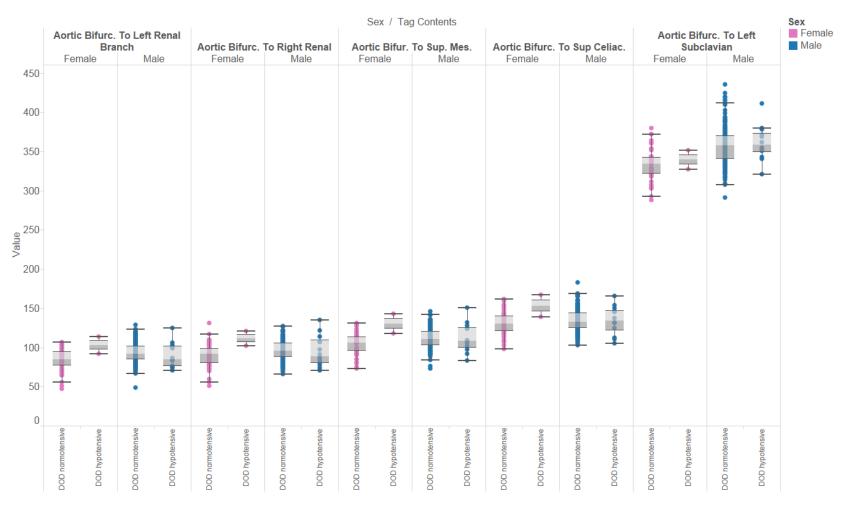
#### by Sex, Hemodynamic Status



Distance (mm) from left/right femoral artery to landmark points



# Vasculature Lengths (Cont.) by Sex, Hemodynamic Status

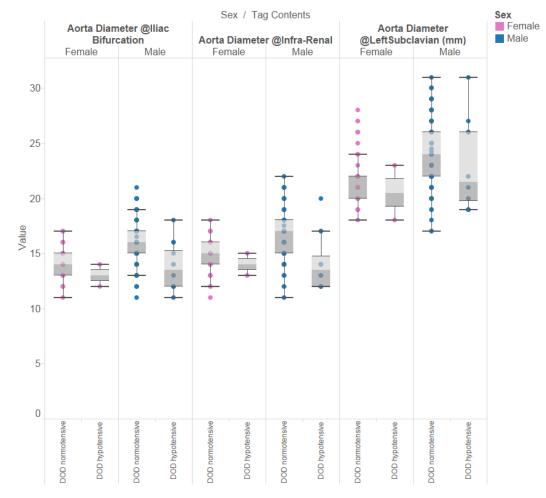


Distance (mm) from aortic bifurcation to other landmark points



#### **Aorta Diameters**

#### by Sex, Hemodynamic Status

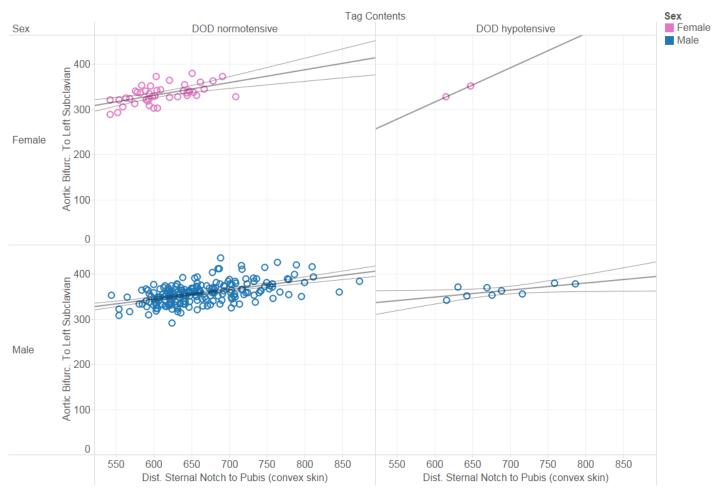


Diameter (mm) of aorta at landmark points



### **Bivariate Distributions**

by Sex, Hemodynamic Status

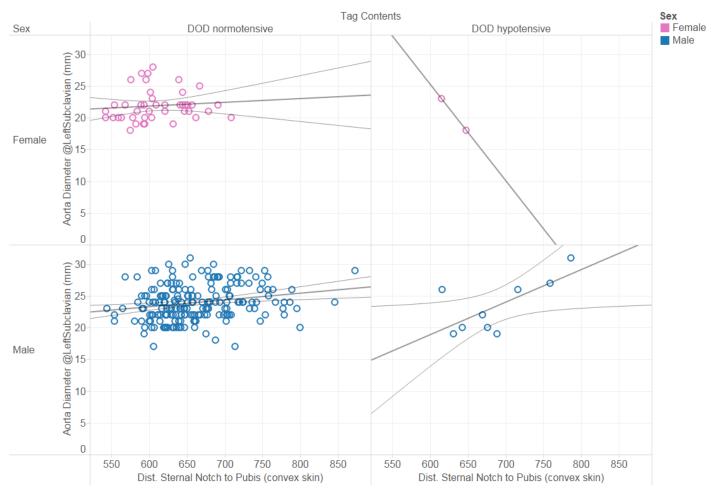






### **Bivariate Distributions**

by Sex, Hemodynamic Status



Distance Sternal Notch to Pubis vs. Aorta Diameter @Left Subclavian



#### **APPENDIX E**

Year 1 Quarter 4 Quad Chart

Characterization of Human Torso Vascular Morphometry in Normotensive and Hypotensive Trauma Patients Log. No. 13057165

Award No. W81XWH-14-2-0126

PI: Stewart Wang, MD Org: University of Michigan Award Amount: \$1,104,504 Direct

#### **Study Aims**

- Develop accurate measurements for aortic dimensions based on hemodynamic status, body habitus, gender, and age in the civilian population
- Develop accurate measurements for venous dimensions based on hemodynamic status, body habitus, gender, and age in the civilian population
- Translate these findings to the military population and create accurate nomograms for catheter insertion and balloon inflation based on hemodynamic status, body habitus, gender, and age.

#### **Approach**

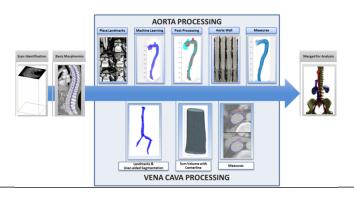
We are developing a machine learning technique for extracting the aortic structures in a more automated fashion. This entails creating algorithms that search for circular structures in a region of interest and then reference the slices above and below to validate selection.

#### **Timeline and Cost**

Activities CY	14	15
Develop accurate measurements for aortic dimensions		
Develop accurate measurements for venous dimensions		
Translate these findings to military population		
Estimated Budget (\$K) Direct	\$541 K	\$563 K

**Updated:** (29 JUN 2015)

#### **Vascular Processing Methodology**



**Accomplishment: Aortic Processing** Development of an algorithm to incorporate machine learning in aortic processing. **Vena Cava Processing** Identification of landmarks and strategic volumes in the vena cava processing algorithm.

#### **Goals/Milestones**

CY14 Goal – Aortic & Venous Dimensions for Civilian Population

0 1 1 <del>4</del> 0001	Action a verious birrierisions for Civilian i opulation
% Complete	Task
100%	Identify Civilian CTs that meet criteria for study
100%	Develop landmarks for mapping aorta and vena cava
100%	Identify 50 EKG-gated and 75 Hypotensive pt CTs
100%	Develop Aortic Algorithm for Machine Processing
100%	Develop Vena Cava Algorithm
100%	Capture Civilian Demographics
75%	Process Base Morphomics on Civilian Population
50%	Process Aorta for Civilian Population
30%	Process Vena Cavae for Civilian Population
CY15 Goals	<ul> <li>Translate to Military Population</li> </ul>
	Perform Morphomics on 500 Military CTs
	Create nomograms for catheter & balloon inflation

#### Comments/Challenges/Issues/Concerns

Access to military CTs is proving difficult to arrange.

#### APPENDIX F

Year 1 Quarter 4 Timeline

#### Contract W81XWH1420126

Characterization of Human Torso Vascular Morphometry in Normotensive and Hypotensive Trauma Patients

Date of Award: 30, June 2014

Period of Performance: 12/30/2014 - 03/30/2015

Timeline

Timeline	1				Ī
		Days from			
Task	SOW Task #	Award (DFA)	Start Date	End Date	Status
Internal Kick-Off Meeting		9 DFA	7/9/2014	7/9/2014	Completed
Kick-Off Meeting with D.O.D.		64 DFA	9/2/2014	9/2/2014	Completed
Identify 2000 Civilian CTs	1.1.1	123 DFA	6/30/2014	10/31/2014	Completed
Develop Aorta Algorithm	1.3	123 DFA	6/30/2014	10/31/2014	Completed
Identify 50 EKG-gated CTs	1.1.2	165 DFA	11/3/2014	12/12/2014	Completed
Identify 75 Internal Injury & Hypotensive CTs	1.1.3	186 DFA	11/3/2014	1/2/2015	Completed
Develop Vena Cava Algorithm	1.4	228 DFA	9/1/2014	2/13/2015	Completed
Capture Civilian Demographics	1.2	249 DFA	11/3/2014	3/6/2015	Completed
Population	1.5	270 DFA	9/1/2014	3/27/2015	Completed
Process Aorta for Civilian Population	1.6	459 DFA	9/22/2014	10/2/2015	In Progress
Process Vena Cava for Civilian Population	1.7	564 DFA	1/5/2015	1/15/2016	In Progress
Civilian Analysis	1.8	648 DFA	12/7/2015	4/8/2016	In Progress
Civilian Population (Rollup)	1	648 DFA	6/30/2014	4/8/2016	In Progress
Arrange Access to Military CTs in San Antonio	2.1	354 DFA	1/2/2015	6/19/2015	In Progress
Identify 500 CTs from Military Population	2.2	480 DFA	6/19/2015	10/23/2015	In Progress
Capture Military Demographics	2.3	564 DFA	10/23/2015	1/15/2016	
Process Base Morphomics for Military Population	2.4	564 DFA	10/23/2015	1/15/2016	
Process Aorta for Military Population	2.5	648 DFA	1/15/2016	4/8/2016	
Process Vena Cava for Military Population	2.6	662 DFA	1/15/2016		
Military Population (Rollup)	2	730 DFA	1/2/2015	6/29/2016	In Progress
Final Analysis	3	730 DFA	4/7/2016	6/29/2016	

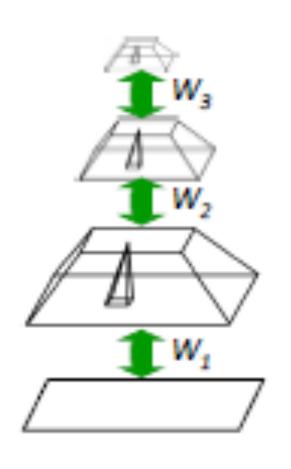
#### APPENDIX G

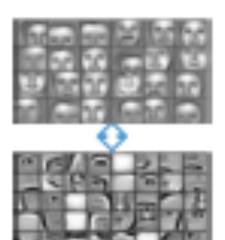
Machine Learning

# **Machine Learning Review**



# **Facial Recognition**







3nd layer (objects)

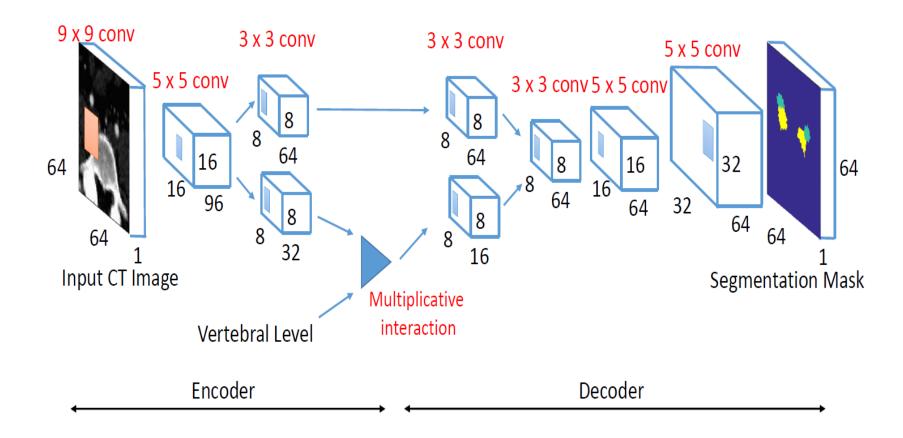
2nd layer (object parts)

1st layer (edges)

Pixel images

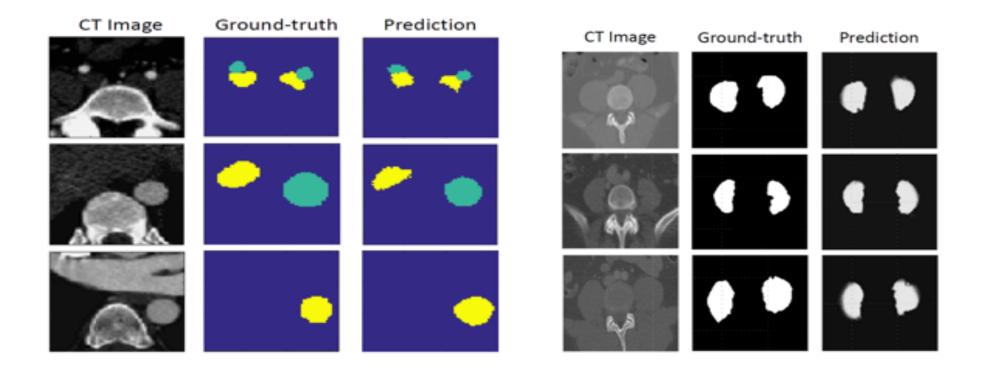


# Analytic morphomics convolutional neural networks (CNN)





# **Machine Learning Results**



**Aorta and Vena Cava** 

**Psoas** 

